

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 2 ] नई दिल्ली, शनिवार, जनवरी 14, 1977 (पौष 24, 1899)  
No.2 ] NEW DELHI, SATURDAY, JANUARY 14, 1977 (PAUSA 24, 1899)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS & DESIGNS  
Calcutta, the 14th January, 1978  
SPECIAL NOTICE

The following holidays will be observed by the Patent Office, Calcutta during the year 1978.

Name of Festival	Day of the week	Date
Netaji's Birthday . . . . .	Monday	23rd January
Republic Day . . . . .	Thursday	26th January
Good Friday/Doljatra . . . . .	Friday	24th March
Mahavira Jayanti . . . . .	Friday	21st April
Budha Purnima . . . . .	Monday	22nd May
Independence Day . . . . .	Tuesday	15th August
Id-ul-Fitr . . . . .	Tuesday	5th September
Gandhiji's Birthday . . . . .	Monday	2nd October
Durga Puja—Mahaastami . . . . .	Monday	9th October
Mahanavami . . . . .	Tuesday	10th October
Vijayadasami . . . . .	Wednesday	11th October
Kalipuja . . . . .	Tuesday	31st October
Id-uz-Zuha . . . . .	Sunday	12th November
Guru Nanak's Birthday . . . . .	Tuesday	14th November
Muharram . . . . .	Monday	11th December
Christmas Day . . . . .	Monday	25th December

## CORRIGENDA

## (1)

In the Gazette of India, Part III, Section 2 dated the 20th August, 1977 under the heading "Name Index"—

at page 716, Column 1

*For* Halcom International, Inc.

*read* Halcon International, Inc.

at page 717, Column 2

*Against* Sperry Rand Corpn. for No. 982/Cal/77

*read* 892/Cal/77.

## (2)

In the Gazette of India, Part III, Section 2 dated the 24th September, 1977 under the heading "Name Index"—

at page 818, Column 2

*For* A/S Burmeister & Wain's Motor-OG Maskin fabrik AF, 1971

*read* A/S Burmeister & Wain's Motor-OG Maskinfabrik AG1971

## (3)

In the Gazette of India, Part III, Section 2 dated the 29th October, 1977 under the heading "Name Index"—

at page 901, Column 1

*For* Agence National De Valorisation DE LA Recherche—A.N.V.A.R.

*read* Agence Nationale DE Valorisation DE LA Recherche—A.N.V.A.R.

*For* Batlibai, F. K.

*read* Batliboi, F. K.

at page 901, Column 2

*Against* Davy Bmag GmbH for No. 248/Cal/77

*read* 248/Bom/77

at page 902, Column 1

*For* Ireco Chemicals

*read* Ireco Chemicals

*For* Jani, C. C.

*read* Jani, C. G.

*Against* Khan, N for No. 189/Cal/77

*read* 189/Del/77

at page 902, Column 2

*Against* Nordica Di Franco E. Giovanni Vaccart & C.S.A.S

*for* No. 1286/Cal/97

*read* No. 1286/Cal/77

at page 903, Column 1

*for* Proizvodstvennoe Chiedinenie - Turbostroenia

Leningradsky Metallichesky Zavod

*read* Proizvodstvennoe Obiedinenie - Turbostroenia

"Leningradsky Metallichesky Zavod".

*Against* Raman Research Institute

*for* No. 143/Mas/77

*read* No. 134/Mas/77

at page 904, Column 1

*For* Vsesojuzny Nauchno-Issledovatel'sky

Institut sipteticheskikh Smol.

*read* Vsesojuzny Nauchno-Issledovatel'sky

Institut Sipteticheskikh Smol.

## APPLICATION FOR PATENTS FILED AT

## THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

8th December, 1977

1704/Cal/77. Lucas Industries Limited. Aircraft surface structure. (December 17, 1976).

1705/Cal/77. Lucas Industries Limited. Fuel injection arrangement. (December 17, 1976).

1706/Cal/77. American Cyanamid Company. Direct synthesis of optically active 2-aminobutanols.

1707/Cal/77. V. F. Gusev, G. N. Ivanov, G. I. Krengel, M. L. Shagivaleev, A. U. Yarmukhametov, G. M. Persov, V. Y. Kontarev, J. I. Schetinin and V. Y. Kremlev. Digital computer.

9th December, 1977

1708/Cal/77. Kinglor Metor S.p.A. Improvements to the carbothermic process for the production of sponge iron, the carbothermic process thus improved and plant for utilizing said improvements.

1709/Cal/77. Kinglor Metor S.p.A. Means for withdrawing sponge iron from retorts.

1710/CAL/77. Union Carbine India Limited. An improved electric flashlight.

1711/Cal/77. Vsesojuzny Nauchno-Issledovatel'sky Institut Tekhni-Cheskogo Ugleroda. A coustic vortex generator.

1712/Cal/77. Dr. Inz. S. C. Jain, A method of dewaxing used or rejected carbon copying paper.

1713/Cal/77. R. K. Agarwal. Improvements in or relating to multiple tariff metering systems for the measurement of electrical energy consumption.

1714/Cal/77. J. Krings. Bracing system slide shoe for trench sheeting equipment.

1715/Cal/77. Kharkovsky Politekhichesky Institut Imeni V. I. Lenina and Ukrainsky Nauchno-Iss-Ledovatel'sky Uglekhimichesky Institut. Process for recovering Anthracene.

1716/Cal/77. Hačoba Tětilmaschinen GMBH & Co. KG. Bobbins for thread-form or strip form material.

12th December, 1977.

1717/Cal/77. Richter Gedeon Vegyeszeti Cyar RT. New piperazine derivatives and a process for the preparation thereof.

1718/Cal/77. Union Carbide India Limited, Emergency light.

1719/Cal/77. Girard-Perregaux S. A. Electric rotary stepping motor.

1720/Cal/77. Cummins Engine Company, Inc. An exhaust braking apparatus.

13th December, 1977

1721/Cal/77. Friedrich Grohe Armaturenfabrik G.m.b.H. & Co. Mixer valve.

1722/Cal/77. Friedrich Grohe Armaturenfabrik G.m.b.H. & Co. Valve slide.

1723/Cal/77. M. I. Baxansky, (2) V. F. Gusev, (3) G. I. Krengel, (4) V. P. Mikhailov, (5) R. S. Kuramshin, (6) G. P. Sorokin and A. U. Yarmukhametov. Method for diagnosing computers and device for effecting same.

1724/Cal/77. Devapriya Mukherjee. Solar energy electrical conversion and storage device using solid electrolytes and fresnel lenses.

1725/Cal/77. Deutsche Gold- Und Silber-Scheideanstalt Vormals Roessler. A process for the production of [1-1-Dithien- (2)-YL-1-Hydroxy- (3) -Propyl]-[1-Phenyl- 1-Hydroxy- (2)-Propyl-Amine and 1, 1-Dithien-(3)-YL-(1) -Propen-(3)-YL] -(2)-Propyl-Amine. (January 12, 1977).

14th December, 1977.

1726/Cal/77. Lucas Industries Limited. Battery charging system for road vehicles. (December 18, 1976).

1727/Cal/77. Societe Alsacienne DE Constructions Mecaniques DE Muulhouse. A rotary cylinder fitted with needles or teeth for the treatment of silvers of textile fibers.

1728/Cal/77. Knorr-Bremse GBMH. Brake accelerator for compressed-air brakes, especially for rail vehicles.

1729/Cal/77. General Electric Company. Annular cutting die, and method of circumferentially shaving away the surface portion of rod.

#### APPLICATION FOR PATENTS FILED AT THE

(DELHI BRANCH)

29th November, 1977.

420/Del/77. Rhone-Poulenc Industries. Continuous process for the rearrangement of alkaline salts of carboxylic acids.

421/Del/77. C. Conradty Nurnberg GmbH & Co. KG. Carbon body and method of manufacturing it.

422/Del/77. Societe Nationale ELF Aquitaine (Production). Laterally engageable flowline connector device.

423/Del/77. L. Paradi, Miklos ACS dr., T. Szuch and T. Konkoly dr. Method of joining current conducting components of wave guide elements and producing of the same.

30th November, 1977.

424/Del/77. V. Choudhary. Pre-warning device for domestic liquid petroleum gas system.

425/Del/77. Williams (Hounslow) Limited. Solvent dyes. (December 9, 1976).

426/Del/77. Impero S.p.A. Parting tool with cutting insert.

427/Del/77. Imperial Chemical Industries Limited. Slurry explosive composition. (December 29, 1976).

428/Del/77. B. N. Vishwakarma. Process for the production of super white lime powder.

1st December, 1977.

429/Del/77. Industries Pirelli SpA. Improvements in or relating to tyres.

430/Cal/77. Rhone-Poulenc Industries. Compositions for the consolidation of mining beds.

3rd December 1977

431/Del/77. Bharat Heavy Electricals Limited. Fuel gas automatic analysis and monitoring equipment.

5th December, 1977.

432/Del/77. Ferranti Limited. Electric circuits. (December 18, 1976).

433/Del/77. Fosco International Limited. Magnesium-containing treatment agents. (December 6, 1976).

434/Del/77. Firestone Tire & Rubber Company. An improved method of manufacturing radial tyres.

435/Del/77. Carrier Corporation. Absorption refrigeration system utilizing solar energy.

436/Del/77. Showa Denko Kabushiki Kaisha. Process for preparing a ferrochromium by using a blast furnace.

#### APPLICATION FOR PATENTS FILED AT THE

(BOMBAY BRANCH)

15th October, 1977.

297/Bom/77. Sohrat Dara Khambata. Choke (which does not need starter) for fluorescent tubes.

298/Bom/77. D. P. Punater. Stepper latching device.

299/Bom/77. Taraporewala Marine Biological Research Station. A hatchery for fish eggs.

300/Bom/77. N. P. Sachania. Improvements in or relating to solvent extraction plant.

301/Bom/77. L. S. Wakankar. Type composition system for dev nagari scripts.

17th October, 1977.

302/Bom/77. Bakalite Hylam Limited. Reactor for manufacturing and processing resins.

303/Bom/77. N. P. Sachania. Improvements in or relating to screw presses.

304/Bom/77. K. G. Panje. A novel electro-mechanical switch.

19th October, 1977.

305/Bom/77. V. G. Jasani. Improvement and modification in Paddy Thresher.

20th October, 1977.

306/Bom/77. Ahmedabad Textile Industry's Research Association. Improving depths of dyeings and prints.

307/Bom/77. M/s. Asian Explosives. Compressed blasting cartridges of blasting powder and/or gun powder.

308/Bom/77. R. Dayal. Improvements made in or relating to a process of and apparatus for manufacturing crunchy, ready-to-eat cellulosic products.

22th October, 1977.

309/Bom/77. N. P. Sachania. Improvements in or relating to a nut decorating machine.

310/Bom/77. Jyoti Limited. Improvements in or relating to a chaff cutter.

24th October, 1977.

311/Bom/77. Ion Exchange (India) Limited. Novel method of regeneration of anion in the field of dashing of clarified cane juice.

312/Bom/77. Ion Exchange (India) Limited. Method of purification of glyoxal.

28th October, 1977.

313/Bom/77. Ahmedabad Textile Industry's Research Association. optimum humidity indicator for hot air dryers.

314/Bom/77. The Textile and Allied Industries Research Organisation. Miniature card.

29th October, 1977.

315/Bom/77. S. S. Patel. Magnetically operated horn (without battery) for use in two/three wheelers.

31st October, 1977.

316/Bom/77. D. D. Patel. Improvement and modification in thrasher.

4th November, 1977.

317/Bom/77. Prabhatchandra Satishchandra Das. A novel anti-pollution device for internal combustion engine and the like.

7th November, 1977.

318/Bom/77. Hindustan Antibiotics Ltd. The preparation of conjugate of penicillinase with protein or polypeptide hormone for its use in immunoassays.

319/Bom/77. G. S. Tasgaonkar and Mrs. Babha Ghanshayam Tasgaonkar. New utensil.

8th November, 1977.

320/Bom/77. S. Chandra and V. K. Mohabey. Film preparation of superionic solids (high conductivity solid electrolytes).

16th November, 1977.

321/Bom/77. P. B. Wamanrao, and S. V. Anantrao. A process of sun-drying of fruits and vegetables avoiding direct contact with sunlight and protected from aerial dust.

322/Bom/77. K. V. Mysore. Cloth drier.

323/Bom/77. M. L. Rathi. Variable speed drive pulleys.

17th November, 1977.

324/Bom/77. M. I. Gokak. A device for anti-hijack measures in aircraft.

325/Bom/77. The Standard Chemical Co. Private Ltd. Process for the manufacture of insoluble sulphur and apparatus therefor.

18th November, 1977.

326/Bom/77. J. N. Gadre and V. M. Sheth. An electromagnetic rotary relay to protect three phase motors against asymmetry.

327/Bom/77. The Indian Council of Agricultural Research. A process for the manufacture of particle boards from cotton plant stalks.

328/Bom/77. Hindustan Lever Limited. Food manufacture. (November 23, 1976).

329/Bom/77. C. R. Shah. Bracelets or straps for watches and the like.

24th November, 1977.

330/Bom/77. N. P. Sachania. An expeller/A screw press.

#### APPLICATION FOR PATENTS FILES AT THE (MADRAS BRANCH)

6th December, 1977

186/Mas/77. K. U. Varunny. Pulse jet carburettor.

27th December, 1977.

187/Mas/77. Prof. B. V. Krishna Murthy. Utilisation of energies released inside a hollow or solid pyramids oriented north-south.

188/Mas/77. P. Kandaswami. Chair-cum-table.

8th December, 1977.

189/Mas/77. H. N. Nagendrasa and H. N. Muneswarasa. Skeleton of built up pugree with size adjusting system with chemical coating or without chemical coating, resin or gel coat head wear, like turban or like cap.

9th December, 1977.

190/Mas/77. C. P. Devassy. A dry cell.

#### ALTERATION OF DATE

143691. }  
1338/Cal/76. } Ante-dated 2nd April, 1974.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents on any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Shankar Ray Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra is sent out of India) Requisition for the supply of the printed specification should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 39E 144E 143659.  
Int. Cl.-C09c 1/02, C01g 37/14,  
C01f 11/00.

IMPROVEMENTS IN OR RELATING TO PREPARATION OF PIGMENT GRADE CALCIUM CHROMATE.  
Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

Inventors: SUBBIAH NADAR GURUVIAH, MEY-YAPPA SUNDARAM, VENKATASUBRAMANIAN CHANDRASEKARAN, KUMMATTITHIDAL SANTHANAM RAJAGOPALAN.

Application No. 116/Cal/75 filed January 21, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims. No drawings.

An improved process for the preparation of pigment grade calcium chromate comprises reacting in stoichiometric quantities chromic acid with chloride free slaked lime characterised in that the reaction is carried out at up to 150°C with stirring and drying the reaction product.

CLASS 32C & 140A<sub>2</sub>. 143660.  
Int. Cl.-C10m 3/08.

A METHOD FOR PREPARING AN OIL SOLUBLE NITROGEN CONTAINING COMPOSITION USEFUL IN LUBRICANTS AND FUELS.

Applicant: THE LUBRIZOL CORPORATION, BOX 17100 EUCLID STATION CLEVELAND, OHIO 44117 U.S.A.

Inventors: JOHN FRANCIS PINDAR, JEROME MARTIN COHEN AND CHARLES PETERSON BRYANT.

Application No. 276/Cal/75 filed February 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A method for preparing an oil-soluble nitrogen-containing composition useful in lubricants and fuels which comprises:

(1) reacting at least one hydroxyaromatic compound containing an aliphatic or alicyclic substituents of at least six carbon atoms with at least one aldehyde in the presence of an alkaline reagent, at a temperature up to 125°C; then

(2) neutralizing the intermediate thus formed at a temperature up to 150°C; and then

(3) reacting the neutralized intermediate with at least one amino compound which contains one or more amino groups having hydrogen directly bonded to amino nitrogen.

CLASS 70C<sub>3</sub> & 201D.

143661.

Int. Cl.-C02b 3/00, A231 3/32,

B01k 3/00.

AN IMPROVEMENT IN OR RELATING TO THE PROCESS AND APPARATUS FOR DESTROYING OXIDISABLE CONTAMINANTS IN AN AQUEOUS LIQUID.

*Applicant* : SACHS SYSTEMTECHNIK GMBH, 872 SCHWEINFURT AM MAIN, JOHANN-GEORG-GADFMANN-STRASSE 13, GERMAN FEDERAL REPUBLIC.

*Inventor* : VOLKER EIBL.

Application No. 1585/Cal/75 filed August 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 18 Claims.

A process for destroying oxidizable contaminants in an aqueous liquid which comprises :

- (a) adding silver ions to said liquid in a first zone;
- (b) conveying said liquid from said first zone to a second zone;
- (c) passing electrolyzing current through said liquid in said second zone in the presence of said silver ions and said contaminants between an anode and a cathode, said anode being in direct contact with said liquid and insoluble in said liquid during said passing of said current;
- (d) independently controlling the magnitude of said current and the amount of said silver ions to respective values jointly sufficient to destroy said contaminants in said second zone; and
- (e) withdrawing said liquid in purified condition from said second zone.

CLASS 172D<sub>2</sub>.

143662.

Int. Cl.-D01h 7/58.

METHOD OF SPINNING AND TWISTING YARN ON SPINNING AND TWISTING FRAMES WITH A DRIVEN SPINNING RING.

*Applicant* : VEB SPINNEREIMASCHINENBAU KARL-MARX-STADT, OF ALTCHERNITZER STR. 27, KARL-MARX-STADT, GERMAN DEMOCRATIC REPUBLIC.

*Inventors* : ROLF LANGER, PETER THIERFEIDER AND HARALD GEISLER.

Application No. 1636/Cal/75 filed August 21, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims.

A method of spinning and twisting yarn on spinning and twisting frames with a driven spinning ring, characterised in that while using a balloon limiting spinning attachment mounted on the spindle the entire spinning process is carried out with a reduced balloon of yarn of without a balloon and at the same time asynchronism is maintained between the spinning ring and the spindle by conventional drive means.

CLASS 55E<sub>1</sub>.

143663.

Int. Cl.-A61k 27/00.

A PROCESS FOR THE OBTENTION OF AMINO ACID FORMULATIONS FOR PATIENTS WITH LIVER DISEASE.

*Applicant* : MASSACHUSETTS GENERAL HOSPITAL, AT 32 FRUIT STREET, BOSTON, MASSACHUSETTS,

UNITED STATES OF AMERICA AND AMERICAN HOSPITAL SUPPLY CORPORATION, AT 1740 RIDGE AVENUE, AVANSTON ILLINOIS, UNITED STATES OF AMERICA.

*Inventors* : JOSEF E. FISCHER, NORMAN NOBUO YOSHIMURA, THOMAS LOUIS WESTMAN AND FRED HERMAN DEIND OEFERER.

Application No. 2319/Cal/75 filed December 10, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims. No drawings.

A process for the obtention of an amino acid preparation for administration to human patients with liver disease, which comprises :

- (i) dissolving in distilled water the following combination of essential and non-essential amino acids combined in the following proportions defined by their interrelated molar ranges :

Amino Acids	Molar Ranges
L-isoleucine	0.0549-0.0823
L-leucine	0.0670-0.101
L-valine	0.0574-0.0861
L-tryptophan	0.000816-0.00441
L-Phenylalanine	0-M
L-tyrosine	0-0.00300
L-lysine	0.0333-0.0500
L-methionine	0.00491-0.0147
L-threonine	0.0228-0.0454
L-alanine	0.0686-0.103
L-arginine	0.0275-0.0413
L-histidine	0.0124-0.0186
L-proline	0.0556-0.00834
L-serine	0.0152-0.0571
glycine	0.0451-0.144
L-aspartic acid	0-0.0451
L-glutamic acid	0-0.0702
L-ornithine	0-0.0382
Lcysteine	0-0.00228

optionally combined with carbohydrate and fat nutrients, wherein M represents the upper limit of the range for phenylalanine and is equal to 0.009 minus the respective molar amount of tyrosine present in said mixture, the combined molar amounts of phenylalanine and tyrosine being at least equal to 0.002 on the same respective molar basis, the respective molar proportions of isoleucine, leucine, valine, tryptophan, phenylalanine, and tyrosine being selected from the above molar ranges thereof so that the ratio of the combined molar proportions of isoleucine, leucine, and valine to (a) the molar proportion of tryptophan is within the numerical range from 40 to 300, and to (b) the combined molar proportion of phenylalanine and tyrosine is within the numerical range from 15 to 135.

- (ii) adding phosphoric acid to the product obtained in the previous step to adjust the pH to between 5 and 7.8;
- (iii) adding sodium bisulfite to the product of the previous step;
- (iv) Adding activated charcoal, filtering and sterilizing the product obtained in the previous step.

CLASS 207.

143664.

Int. Cl.-B27j 1/00, E04h 17/00.

PROCESS FOR THE MANUFACTURE OF A COMPOSITE BAMBOO STRUCTURAL MEMBER AND STRUCTURAL MEMBER MADE THEREBY.

*Applicant* : M. G. COMMERCIAL (PRIVATE) LTD., OF  
10 PARK MANSIONS, 57A PARK STREET, CALCUTTA-  
700016, WEST BENGAL, INDIA.

*Inventor* : SWAROOP CHANDRA BHANJDEO.

Application No. 938/Cal/76 filed May 31, 1976.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

A process for the manufacture of a composite bamboo structural member comprising the steps of boring out the hollow of a bamboo post, removing at least part of the external septum, drilling at least one anchor hole radially of the post and inserting a removable plug therein treating the post with a preservative, packing the hollow with a reinforcement compound to form a reinforcement core and removing the plug after maturity of said compound.

CLASS 98G & 181.

143665.

Int. Cl.-F28f 1/00, F16j 15/00.

HEAT EXCHANGE APPARATUS AND SEALING MEANS THEREFOR.

*Applicant* : THE AIR PREHEATER COMPANY, INC., OF  
ANDOVER ROAD WELLS VILLE, NEW YORK, U.S.A.

*Inventor* : RICHARD FRANKLIN STOCKMAN.

Application No. 954/Cal/76 filed June 2, 1976.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims.

A regenerative heat exchange apparatus including a central rotor post, a plurality of compartments lying in lateral juxtaposition to provide a composite rotor that extends around the rotor post, means joining each compartment to the rotor post, a mass of heat absorbent material contained in the compartments of the rotor, housing means surrounding the rotor including end plates at opposite ends thereof having inlet and outlet openings that direct a heating fluid and a fluid to be heated through the heat absorbent material of the rotor, sealing means between the rotor post and the surrounding housing structure adapted to preclude the flow of fluid through the space therebetween, said sealing means comprising an annular flange attached to the rotor post in spaced relation to the end plate of the housing to provide a clearance space between the annular flange and said end plate, a plurality of independent sealing rings in said clearance space that provide a fluid chamber therebetween, a source of high pressure fluid, and an inlet for high pressure fluid connecting said source to said fluid chamber whereby said fluid chamber may be supplied with a quantity of high pressure fluid.

CLASS 59H.

143666.

Int. Cl.-E03f 3/00.

A PRE-FABRICATED CHANNEL SECTION FOR USE IN DISCHARGE OF WATER.

*Applicant & Inventor* : SM. SARASVATI DEVI, (2) MANOHARLAL SURI, (3) SM. SHANTIDEVI SURI, ALL OF  
17, CAMAC STREET, MONALISA BLDG., CALCUTTA-  
700017, WEST BENGAL, INDIA.

Application No. 1481/Cal/76 filed August 13, 1976.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims.

A prefabricated channel section for use in the discharge of water through canals and like water-ways comprising a base plate and two side walls, all independently pre-cast, the base having along its length near the ends thereof recesses for engagement of the said side walls, the section of each recess being such that its outer face is made slanting so that against this outer face the side wall can recline or rest forming an obtuse angle with the base plate.

CLASS 206E.

143667.

Int. Cl.-H03f 3/04.

IMPROVEMENTS IN OR RELATING TO TRANSISTOR POWER AMPLIFIERS.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF  
BERLIN AND MUNICH, WEST GERMANY.

*Inventor* : DR. ING. JOHANN GERHARD ZIRWAS.

Application No. 1856/Cal/76 filed October 11, 1976.

Convention date July 30, 1976/(31795/76) U.K.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims.

A transistor power amplifier for transmitting installations, in which two parallel-connected signal paths have their inputs fed via separate outputs of a first hybrid circuit to the input of which an input signal terminal is connected, said paths being recombined by the connection of their outputs to respective inputs of a second hybrid circuit whose output is connected to an output terminal, a first one of said parallel-connected signal paths containing a first amplifier in parallel with a delay element that forms part of the other said path and simulates the group transit time of the first amplifier the output of the first amplifier and that of the first delay element each being connected by a respective branch to inputs of a correcting amplifier which is in the form of a differential amplifier, the signals fed to said correcting amplifier, when operating, consisting of components of the amplified input signal together with any resultant fault component, for comparison with the original input signal received at the other input contrived to be such that the output signal of the correcting amplifier and the input signal attenuated by an attenuating element produces a drive signal for a second amplifier located in said second signal path, any fault component produced in the first amplifier being contained in said drive signal in doubled and inverted form, said second amplifier connected in parallel with a second delay element in said first signal path to simulate the group transit time of said second amplifier, the output of said second delay element and the output of said second amplifier being inter connected via said second hybrid circuit.

CLASS 194C.

143668.

Int. Cl.-H05g 1/60.

APPARATUS FOR PRODUCING AXIAL TOMOGRAMS.

*Applicant & Inventor* : DWIN RICHARDS ON CRAIG, OF  
9447 EMORY GROVE ROAD, GAITHERSBURG, MARY-  
LAND 20760, UNITED STATES OF AMERICA.

Application No. 2255/Cal/76 filed December 23, 1976.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims.

An apparatus for producing axial tomograms including :  
a point source of electromagnetic radiation ;

means for confining a portion of said radiation to a thin,  
fan-shaped beam ;

means for supporting an object in the beam, wherein said  
object allows differential penetration of said radiation ;

means for supporting and rotating a flat radiation detecting  
surface in and substantially parallel to the plane of said beam  
after penetration of said object wherein said surface is capable  
of forming a raygram image of said differential penetration ;

means for relative rotational drive of said object support,  
said point source and said surface support, about parallel axes  
which pass at right angles through the plane of said fan-  
shaped beam ; and

means for synchronizing said relative rotation.

CLASS 39E.

143669.

Int. Cl.-C01d 1/00, C011 1/00,

E01g 3/00, E04g 21/00, E041 21/00.

PROCESS FOR MANUFACTURE OF AN ACCELERATOR FOR QUICK SETTING AND HARDENING OF SHOTCRETE.

*Applicant & Inventors* : ARVIND KUMAR MATHUR, E-1, APSARA 67, PARK STREET, CALCUTTA-16, GANGA NARAIN TANDON, 3, YAMUNA COLONY, DEHRA DUN, U.P. AND RAJ KARAN MISRA, TEST AND CONTROL LABORATORY, DAKPATHAR, DISTT. DEHRA DUN, U.P., INDIA.

Application No. 1252/Cal/77 filed August 11, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims. No drawings.

A process for manufacture of an accelerator for quick setting and hardening of shotcrete as defined herein comprising intimate mixing of water soluble constituents and insoluble constituents during the passage through the nozzle of the shotcreting machine characterised in that the water soluble part comprises of equal amounts of Sodium Carbonate and Sodium Aluminate, and insoluble part of Calcium Carbonate.

CLASS 203.

143670.

Int. Cl.-B65h 5/06.

**MECHANISM FOR FEEDING SINGLE SHEETS FROM A STACK OF SHEETS.**

*Applicant* : GESTETNER LIMITED, OF FAWLEY ROAD, TOTTENHAM, LONDON, N17 9LT, ENGLAND.

*Inventor* : ALBERT GEORGE RONALD GATES.

Application No. 128/Cal/75 filed January 22, 1975.

Convention date January 24, 1974/(03277/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A feed mechanism for feeding individual sheets from a stack, the mechanism including : a first horizontally extending support surface for supporting an edge of a stack of sheets; a rotatable sheet feed roller adjacent to said surface to define therewith a nip through which sheets may be fed, the axis of the sheet feed roller being parallel to said surface; a plate member above the first support surface and having a second support surface for a face of the stack of sheets, said second surface extending at an obtuse angle to the first support surface such that the feed roller is included within said obtuse angle, and the lowermost part of the second surface being urged towards the nip between the sheet feed roller and the first support surface; and means adapted to support the plate member such that during advance of the plate member towards the sheet feed roller, said obtuse angle is varied so as to be inversely proportional to the spacing between the lowermost part of the second surface and the said nip.

CLASS 24E.

143671.

Int. Cl.-F16d 65/36.

**IMPROVEMENTS IN BRAKE ADJUSTERS.**

*Applicant* : GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

*Inventor* : ANTHONY ASQUITH.

Application No. 220/Cal/75 filed February 6, 1975.

Convention date February 16, 1974/(7157/74) U.K.

Appropriate office for opposing Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

A slack adjuster for a vehicle brake system which includes first and second members having a reversible screw-thread connection (as hereinbefore defined) therebetween such that in one direction of axial load between said first and second members relative rotation is effected therebetween, and a third member, said second and third members having interengageable wedging surfaces thereon effective upon axial loading in a direction opposite to said one direction for urging relative radial displacement between said first and second members to

hold the first and second members in frictional engagement with one another at said reversible screw-thread connection to prevent reverse relative rotation therebetween, the first and second members being spring biased towards one another at said reversible screw-thread connection in a substantially radial the first and second members being spring biased towards one another at said reversible screw-thread connection in a substantially radial direction to inhibit undesired rotation at the reversible screw-thread connection.

CLASS 39E. & 144E.

143672.

Int. Cl.-C09c 1/32.

**IMPROVEMENTS IN OR RELATING TO THE PRODUCTION OF BLUE ULTRAMARINE.**

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

*Inventors* : SUKHENDU BIKAS CHAUDHURI AND BIRENDRA KUMAR SAIKIA.

Application No. 303/Cal/75 filed February 18, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims. No drawings.

An improved process for the production of blue ultramarine wherein kaolin, sodium sulphide and carbon are calcined, the reaction mass is cooled, dried, pulverised and then recalcined, characterised in that the calcination is carried out in the presence of copper sulphate used as a catalyst.

CLASS 69-I.

143673.

Int. Cl.-H01h 71/00.

**ELECTRICAL SWITCHGEAR DRIVE MECHANISM.**

*Applicant* : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, GERMANY (WEST).

*Inventors* : SIEGFRIED JÄHRIG AND REINHARD LIEBIG.

Application No. 820/Cal/75 filed April 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

An electrical switchgear drive mechanism comprising a device for storing energy to be used in performing a switching operation and an electrical supply arrangement for supply electrical current to an electric motor for supplying energy to the energy storage device, said electrical supply arrangement comprising first limit sensing means operable to interrupt such supply in dependence upon the energy contents of the energy storage device and the supply arrangement also including second limit sensing means with which there is associated a latch, the latch being operable to control the second limit sensing means to maintain such electrical supply to such an electric motor as aforesaid whilst the energy storage means is being charged, and there being a free-wheeling means, for the motor, operable to allow the motor to free-wheel when the energy storage means has been charged.

CLASS 65A.

143674.

Int. Cl.-H02m 7/00, H011 9/00.

**THREE PHASE FULL WAVE RECTIFIER ASSEMBLY.**

*Applicant* : THE LUCAS ELECTRICAL COMPANY LIMITED, OF WELL STREET, BIRMINGHAM B19 2XF, ENGLAND.

*Inventor* : MAURICE JAMES ALIPORT.

Application No. 1057/Cal/75 filed May 26, 1975.

Convention date June 8, 1974/(25550/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A three phase full wave rectifier assembly including first and second sub-assemblies each including three semiconductor diodes and an electrically conductive heat sink, the three diodes of the first sub-assembly being secured to the first heat

sink with, their anodes electrically connected thereto, by means of a common clip which engages the heat sink, there being resilient means acting between the clip and the diodes to urge the diodes firmly into contact with the heat sink, the second sub-assembly being constructed in a manner similar to said first sub-assembly but with the cathodes of the diodes thereof electrically connected to the heat sink, and three phase connectors, each connector being electrically connected to a cathode of a diode of the first sub-assembly and an anode of a diode of the second sub-assembly.

CLASS 40B & 56B.

143675.

Int. Cl.-C10g 13/02, C101 1/00.

IMPROVEMENTS IN OR RELATING TO A PROCESS FOR THE PRODUCTION OF KEROSENE AND DIESEL OIL FROM HEAVY STOCKS OF PETROLEUM EMPLOYING ALUMINA BASE CATALYST.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : BIBHUTI BHUSAN BRAHMACHARI, MUKUL RANJAN SAHA, AMARENDRA NATH BOSE, SATYA BRATA BASU, BHAGWAT CHATTERJEE, ARYAKUMAR GANGULY, VATADAHOSAHALLI ASWATHANARANAPPA KRISHNA MURTHY.

Application No. 1573/Cal/75 filed August 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

11 Claims. No drawings.

A process for the production of kerosene and diesel oil by vapour phase hydrocracking of heavy stocks of petroleum such as vacuum distillates or residues employing an improved catalyst consisting of alumina base prepared by reacting aluminium powder, turnings or foils with isopropyl-alcohol and separating the aluminium-isopropoxide from the resultant mixture by distillation under vacuum followed by hydrolysis of the aluminium-isopropoxide with water, separating the aluminium hydroxide formed by hydrolysis, drying it in air oven, calcining in a muffle furnace and cooling to room temperature, crushing the prepared alumina base to -6 to +14 B.S.S. size, impregnating the base with a mixed solution containing salts of active hydrogenating components such as nickel and/or cobalt and molybdenum, drying the impregnated wet material in air oven, heating in a muffle furnace at a controlled rate of temperature and cooling to 30°C.

CLASS 107F.

143676.

Int. Cl.-F02p 9/00.

#### SPARK PLUG

*Applicant & Inventor* : HARRY EDWARD FRANKS, OF LASER NUCLEONICS INC., 123 MOODY STREET, WALTHAM, MASSACHUSETTS 02154, UNITED STATES OF AMERICA.

Application No. 1602/Cal/75 filed August 18, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A spark plug comprising a mounting body, and first and second electrodes carried by said body and separated by a space constituting a spark gap, wherein said first and second electrodes are generally coaxially disposed with mutually opposed sparking surfaces, said surfaces arranged in substantially planar parallelism to provide a large number of alternate sparking paths through said spark gap, the outer of said electrodes including a plurality of spaced perforations comprising gas flow passageways between said spark gap and the exterior of said outer electrode.

CLASS 34A & 145A.

143677.

Int. Cl.-D01d 5/00, 5/08.

IMPROVEMENTS TO THE PREPARATION OF SYNTHETIC FIBRES FOR PAPER.

*Applicant* : MONTEDIS ON S.P.A., OF 31 FORO BUONAPARTE, MILAN, ITALY.

*Inventors* : GIOVANNI DI DRUSCO AND DEOSCARIDE ZAFFAGNINI.

Application No. 2199/Cal/75 filed November 17, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Process for preparing fibrils or microfibrils of synthetic polymers, suited to be used in the preparation of paper, in which solutions, emulsions or dispersions of fibrogenous thermoplastic polymers in a liquid medium are extruded through a nozzle, under such conditions as to have instantaneous vaporization of the liquid medium in the ambient of extrusion, and are caused to be impacted, in said ambient of extrusion, by a high-speed gaseous fluid jet, having an angular direction with respect to the extrusion direction of such solution, emulsion or dispersion, characterized in that said fluid is initially made to expand through a nozzle of the convergent-divergent type, and in that the polymeric solution, emulsion or dispersion is extruded in the divergent portion of such convergent-divergent nozzle.

CLASS 128G.

143678.

Int. Cl.-A61b 3/00.

DEVICE FOR PLACING A CONTACT LENS DIRECTLY ON THE CORNEA OF THE EYE.

*Applicant & Inventor* : TEXWAN SIO, OF 4, HARRINGTON STREET, CALCUTTA-700016, STATE OF WEST BENGAL, INDIA.

Application No. 804/Cal/76 filed May 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A device for placing a contact lens directly on the cornea of the eye comprising a housing, a tubular piece attached to the housing, one end of said piece projecting from the housing and adapted to carry the contact lens, the other end of the tubular piece being within the housing and supported by a contact strip, a chamber in the housing for a battery cell, a bulb holder located in the housing to be coaxial with the tubular piece, one contact of the bulb being permanently connected to the terminal of the battery, the other terminal of the battery being connected to the bulb through a pair of contact strips, one said strip being the strip that supports the tubular piece, manual means for causing the two contact strips to establish contact for the bulb to light, the contact between the said two contact strips being broken by the pressure of the tubular piece so that when the contact lens is deposited in the cornea of the eye, the indication such deposit is given by the fact that the bulb has ceased to light.

CLASS 40H.

143679.

Int. Cl.-B01d 53/34.

PROCESS FOR REMOVING HYDROGEN SULPHIDE FROM A GAS CONTAINING IT.

*Applicant* : BAYER AKTIENGESellschaft, OF LEVERKUSEN, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : ROOLF GERMERDONK, ADAM JONAS, DIETER HULISTRUNG AND BERNARD SCHERHAG.

Application No. 827/Cal/76 filed May 11, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

A process for removing hydrogen sulfide from a gas containing it comprising treating the gas with an aqueous solution of at least one organic polybasic acid having a dissociation constant of 10<sup>-2</sup> to 10<sup>-5</sup> and buffered by a base,

- (a) the gas having a molar ratio of hydrogen sulfide to sulfur dioxide of at least about 2:1 and being brought into contact in finely divided form in a first absorption and reaction zone at a temperature of 10° to 100°C with the aqueous absorption solution

buffered by the base to a pH of 2 to 6, thereby to produce solid sulfur;

- (b) the sulfur accumulating in solid form from the solution being removed from at least a component stream of the solution;
- (c) the gas leaving stage (a) being heated to a temperature of 700 to 1000°C, thereby converting the sulfur compounds present in the gas into sulfur dioxide and oxidizing any organic compounds present into carbon dioxide and water;
- (d) SO<sub>2</sub>-containing smoke gas from stage (c) being recycled to stage (a),
- (e) the balance of the smoke gas component stream from (c) containing at most 0.1% of SO<sub>2</sub> by volume, being treated in a second absorption stage (e) with the solution leaving stage (b) for the absorption of SO<sub>2</sub>, and
- (f) the SO<sub>2</sub>-containing solution from stage (e) being recycled to stage (a).

CLASS 32F<sub>1</sub>.

143680.

Int. Cl.-C07c 103/30.

#### PROCESS FOR PREPARING MITICIDALLY ACTIVE PHENOXYALKYLAMIDES.

*Applicant*: STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT 06880, UNITED STATES OF AMERICA.

*Inventors*: DON ROBERT BAKER AND FRANCIS HARRY WALKER.

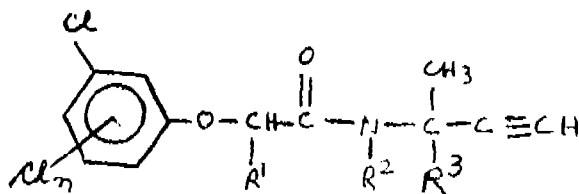
Application No. 1277/Cal/76 filed July 16, 1976.

Convention date June 28, 1976/(15369/76) AUSTRALIA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

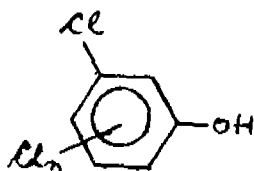
4 Claims.

A process for the manufacture of a miticidally active compound having the formula shown in Formula I.



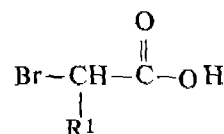
wherein R<sup>1</sup> is either methyl or ethyl; R<sup>2</sup> and R<sup>3</sup> are independently either hydrogen or methyl; and when R<sup>3</sup> is hydrogen, n is either 1 or 2; and when R<sup>3</sup> is methyl, n is 2; wherein the phenyl ring may contain floating chlorine atoms, which comprises

- (a) reacting a compound having the formula shown in Fig. 2.



2-417GI/77

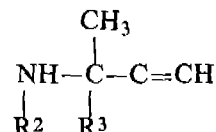
with a compound having the formula shown in Fig. 3.



in which n and R<sup>1</sup> are as defined above, in the presence of aqueous sodium hydroxide,

- (b) reacting the product of step (a) with phosgene in the presence of a small amount of dimethyl formamide, and

- (c) reacting the product of step (b) with a compound having the formula shown in Fig. 4.



in which R<sup>2</sup> and R<sup>3</sup> are as defined above, in the presence of triethylamine, to produce the desired product.

CLASS 17A<sub>4</sub> & 32E.

143681.

Int. Cl.-D21c 5/00, C08f 1/00,

C12g 3/00.

#### PROCESS FOR THE OBTENTION OF FERMENTABLE POWDERED SYRUP AND ALPHA-CELLULOSE FROM XEROPHYTE PLANTS.

*Applicant & Inventor*: ENRIQUE ZEPEDA CASTILLO, OF CALLE JUAN BERNARDINO NO. 249, COLONIA CHAPALITA, GUADALAJARA, JAL., MEXICO.

Application No. 2275/Cal/74 filed October 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A process for producing a fermentable powdered syrup and an alpha-cellulose preparation from succulent xerophyte plant material, which comprises

- (a) chopping washed leaf and core material of a succulent xerophyte plant to form pieces of a size suitable for liquid extraction;

- (b) treating the pieces with an aqueous extraction liquid at a temperature of from 85° to 92°C to extract soluble plant materials into the liquid, and separating the liquid extract from a solids-containing residue;

- (c) hydrolysing the solids-containing residue from step (b) by treatment with water at a temperature in the range 100°—120°C and under sufficient pressure to maintain the water in the liquid state, expressing a hydrolysis liquor from a solids-containing hydrolysis residue, and mixing the hydrolysis liquor with the liquid extract from step (b);

- (d) concentrating the mixed liquid extract and hydrolysis liquor to form a syrup having a Brix degree of about 80, and spray-drying the syrup to produce a fermentable powdered syrup; and

- (e) recovering in a manner known *per se* an alpha-cellulose preparation from the solids-containing hydrolysis residue.

CLASS 172D<sub>4</sub>.

143682.

Int. Cl.-D01h 5/72.

#### APPARATUS FOR FEEDING FIBRES TO THE INNER WALL OF A SPINNING ROTOR OF AN OPEN-END SPINNING APPARATUS.

*Applicant*: SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERTS-TRASSE 84, 8070 INGOLSTADT, WEST GERMANY.

*Inventors*: DR. PETER ARTZT, ALBERT BAUSCH AND DR. GERHARD EGBERS.

Application No. 2674/Cal/74 filed December 3, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims.

Fibre feed apparatus for feeding fibres to the inner wall of a spinning rotor of an open-end spinning apparatus which functions subject to reduced pressure, with a spinning rotor and with a feed duct which is directed tangentially of the inner wall of the spinning rotor, the feed duct having a first conical part and a second, cylindrical part which lies immediately continuously of the first, conical part, characterised in that the cross-sectional area of the inlet or mouth of the conical part amounts to 4 to 20 times the cross-sectional area of the cylindrical part, the diameter of the cylindrical part amounts to  $1/10$  to  $1/25$  the total length of the feed duct, and the length of the cylindrical part being 0.5 to 3 times the length of the conical part.

CLASS 206E & K. 143683.

Int. Cl.-H04b 1/02.

AN IMPROVED MOBILE AMPLITUDE MODULATED TRANS RECEIVING APPARATUS.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-1, INDIA.

*Inventors*: PRABHAKAR KHANDERAO RANGOILE AND HEMANT KUMAR JAIN.

Application No. 2760/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 2 Claims.

An improved mobile amplitude modulated trans receiving apparatus comprising a speaker/microphone, an audio amplifier circuit having a desired number of transistors, capacitors and a diode, characterised in that the amplitude modulation is obtained by providing a transformerless circuit using a miniature radio frequency choke and a transistorised radio frequency power amplifier whose emitter is used for injecting the modulating signal.

CLASS 36D & G. 143684.

Int. Cl.-B01d 1/00, 1/02,

B01j 17/40.

A SILICON HALIDE EVAPORATOR FOR OBTAINING CONSTANT RESISTIVITY OF SILICON EPITAXIAL LAYER ON SILICON.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-1, INDIA.

*Inventors*: PURUSHOTTAM DAS VYAS, BHARAT BHUSHAN DIXIT AND KANWAL SINGH BALAIN.

Application No. 2764/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 2 Claims.

A silicon halide evaporator for obtaining silicon epitaxial layer on silicon comprising (i) a first container containing the following liquids and their vapours namely silicon halide, and liquid dopant such as Antimony trichloride, Phosphorus trichloride and Boron trichloride, (ii) an inlet with first stop cock for carrier gas hydrogen, (iii) a first outlet with a second stop cock for the vapours of silicon halide, the dopant and carrier gas hydrogen, (iv) a constant temperature bath for maintaining constant temperature of liquid mixture of silicon halide and liquid dopant in the container, whereby the vapour mixture from the first outlet are led to a reaction chamber containing silicon wafers on which a known resistivity silicon epitaxial layer is grown, characterized in that the inlet is connected to (v) a second container containing, (vi) glass beads, the said container with glass beads is attached to the first container containing the mixture of the liquid silicon halide and the liquid dopant, (vii) a glass frit filter is placed above the

glass beads in the second container which is also provided with a (viii) second outlet with a third stop cock for vapours of the silicon halide, dopant carrier gas hydrogen, (ix) a first connecting tube with a fourth stop cock is provided for connecting the first outlet and the second outlet, and (x) a second connecting tube with a fifth stop cock connecting the inlet of the second container containing glass beads and the first outlet, whereby, when (a) carrier gas hydrogen is passed through the second connecting tube by opening the fifth stop cock, with first and second stop cocks closed, the liquid level of the mixture of liquid silicon halide and liquid dopant in the second container is raised upto upper surface of the glass frit filter, (b) whereafter, when the fifth stop cock is closed and the first and the fourth stop cocks are opened (keeping second and third stop cocks closed) the vapour mixture of silicon halide, dopant and carrier gas hydrogen is passed through a vent for about ten minutes, thereafter (c) when, the fourth stop cock is closed and the third stop cock is opened (keeping the first stop cock open and the second and the fifth stop cocks closed), the vapour mixture (of silicon halide, dopant and carrier gas hydrogen) is passed through the reaction chamber for silicon epitaxial growth over silicon wafers, thus achieving constant resistivity of the grown silicon epitaxial layer.

CLASS 206E. 143685.

Int. Cl.-H01L 1/00, 3/00.

A PROCESS FOR THE MANUFACTURE OF SEMI-CONDUCTOR DEVICES SUCH AS MESA DEVICES.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-1, INDIA.

*Inventors*: RAM PRATAP GUPTA AND JAI PRAKASH PACHORI.

Application No. 588/Cal/75 filed March 24, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 6 Claims.

An improved process for the manufacture of semiconductor devices such as mesa devices characterized in that a semiconductor substrate material is coated with a mask of photoresist material by a photolithographic process and etching away the desired portions of the substrate using desired etchants compositions therefor.

CLASS 64B. 143686.

Int. Cl.-H01r 15/00.

IMPROVEMENTS IN OR RELATING TO ADAPTOR OR SOCKET.

*Applicant & Inventor*: ATAM DEWAN, 31/21 EAST PATEL NAGAR, FIRST FLOOR, NEW DELHI-110008, INDIA.

Application No. 1006/Cal/75 filed May 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 7 Claims.

An adaptor or socket comprising a housing having a neutral terminal for connecting the neutral conductor of a load to a power source, a line terminal adapted to connect the line conductor of a load to a power source, an earth terminal adapted to connect the earth conductor of load to the power source, characterized in a shutter mechanism consisting of a shutter body having a pair of arms adapted to close the line and neutral terminals and a third arm having an inclined surface adapted to partly close the earth terminal when a load is not connected to said device, said shutter body being slidably disposed within said housing.

CLASS 70C<sub>2</sub> & C<sub>4</sub>. 143687.

Int. Cl.-C22d 3/20.

A NEW METHOD FOR THE PRODUCTION OF MASTER ALLOY OF ALUMINIUM-MAGNESIUM.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-1, INDIA.

*Inventors* : KUPPUSWAMI VENUGOPALAN, VEERARAGHAVARAVAMUTHAN, MOHAMED KAMALUDEEN AND NEDUMARAN GOPALAN RANGANATHAN.

Application No. 914/Cal/75 filed May 8, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 2 Claims.

A process for the production of master alloy of magnesium-aluminium containing a maximum of 33-35% magnesium metal which consists in discharging magnesium ion on to molten aluminium cathode from a fused salt electrolyte containing 1 : 1 weight ratio of magnesium-potassium chloride at 700 to 750°C and current density (cathode 100 amp/sq. dm., and anode 400 amp/sq. dm.), carbon/graphite anode and sucking of chlorine to obtain the desired product.

CLASS 89. 143688.  
Int. Cl.-G01b 3/18, 3/20.

## VERTICAL MICROTRAVERSING MECHANISM.

*Applicant & Inventor* : ASHOK KUMAR GUPTA, RANGA IYER KRISHNAMURTHY, BOTH OF THE DEPARTMENT OF AERONAUTICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY, KANPUR-208016, AND THE DIRECTOR, INDIAN INSTITUTE OF TECHNOLOGY, KANPUR-208016, INDIA.

Application No. 1062/Cal/75 filed May 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims.

A vertical microtraversing mechanism comprising of a base plate having an opening large enough to allow a small diameter probe to freely pass through the base plate, on the base plate is fitted towards one side a vertical column which carries a sub-assembly consisting of a micrometer head attached to an upper small plate slidable up or down on the vertical column or held on to the vertical column at predetermined locations by means of a plunger screw, the tip of the micrometer shaft being attached to a lower sliding plate fitted with a brass bush to slide on the vertical column, and the lower slidable plate carrying a probe to the further right of the micrometer head.

CLASS 4A. 143689.  
Int. Cl.-C01m 9/00.

## WIND TUNNEL STING MOUNTED AIRCRAFT MODEL (INCIDENCE) TESTING SYSTEM.

*Applicant* : ASHOK KUMAR GUPTA, OF THE DEPARTMENT OF AERONAUTICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY, KANPUR-208016, INDIA AND THE DIRECTOR, I.I.T. KANPUR-208016, INDIA.

*Inventor* : ASHOK KUMAR GUPTA.

Application No. 1063/Cal/75 filed May 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims.

A wind tunnel sting mounted aircraft model (incidence) testing system comprising a heavy metal base plate (1), which towards one side of the centre of the base plate has fixed to it two parallel metal guide rails between which a metal slider (S4) moves horizontally, and on the other side of the centre of the base plate has an almost parallel vertical 4 bar linkage mechanism consisting of a major vertical link pin jointed at the upper free end to an horizontal model sting adaptor which forms the second link, and which itself is connected through a pin joint to the upper extremity of the third vertical link, the lower extremity of which in turn is pin jointed to horizontal slider on the base plate, the fourth link also pin jointed to the major vertical link above the threaded portion at a suitable intermediate position, the almost parallel vertical 4 bar linkage located such that the main vertical link of this mechanism is constrained to move only in the vertical direction by means of a long vertical bush bearing located above the base plate by means of a plate on a platform frame attached to the base plate, and a clear hole in the base plate through

which the lower threaded portion of the major vertical link passes to make contact with a nut carrying worm wheel, which in turn is held between two end thrust bearings held in an open side ended box bracket fixed underneath the base plate, the worm wheel making contact with a horizontal worm shaft with a hand wheel and located in the same metal box, the rotation of hand wheel fitted worm shaft being transmitted to a reversible mechanical counter located in the base plate above the box bracket by means of a set of spur gears and another set of bevel gears.

CLASS 126A & D & 146C. 143690.  
Int. Cl.-C01j 5/00.

## A PYROELECTRIC INFRARED DETECTOR.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

*Inventor* : DR. VISHNU GANESH BHIDE AND DR. MAN MOHAN PRADHAN.

Application No. 1842/Cal/75 filed September 25, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims.

A pyroelectric infrared detector comprising a crystal plate of ferroelectric crystal cut perpendicular to the ferroelectric axis, one surface of the cut plate is provided with a metallic film called front electrode and the other surface is mounted on a metallic base and connected to an electronic circuit comprising a nuvistor tube, a bias resistance and a filament supply in the cathode circuit; a high value bias resistor and a coupling condenser in the grid circuit and a load resistor, a plate supply and a coupling condenser in the plate circuit; whereby when infrared radiation falls on the crystal plate, electric charges are developed on the electrodes of the crystal plate; these charges are amplified by the electronic circuit and give an output electrical signal directly proportional to the intensity of the falling infrared radiation characterized in that the metallic film provided on the said one surface of the cut plate consists of a metallic grid instead of the semi-transparent metallic film provided in a conventional device, whereby the open portion of the metallic grid allows the infrared radiation to come directly in contact with the crystal plate, thereby reducing in the reflection losses and improving the sensitivity of the device.

CLASS 32F<sub>b</sub>. 143691.  
Int. Cl.-C07d 89/00.

## METHOD OF PREPARING NOVEL CARBAMATE DERIVATIVES.

*Applicant* : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventors* : JOHN APLING DURDEN, JR. AND ARTHUR PETER KURTZ.

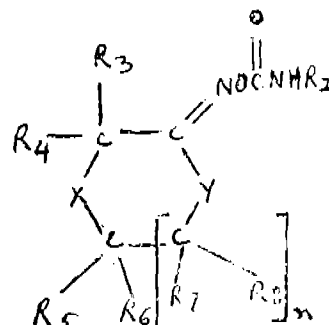
Application No. 1338/Cal/76 filed July 27, 1976.

Division of Application No. 737/Cal/74 filed April 2, 1974.

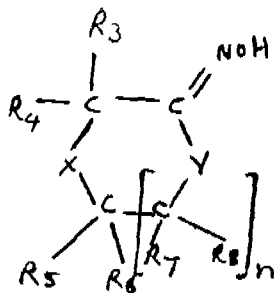
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A method of preparing a compound of the formula shown in Fig. 1.



which comprises reacting an isocyanate compound of the formula :  $R_3NCO$  with a compound of the formula shown in Fig. 2.



wherein :

$R^4$  may be lower alkyl, halogen substituted lower alkyl, cycloalkyl, lower alkoxyalkyl, lower alkylthio, lower alkylthioalkyl, lower alkylsulfinylalkyl, lower alkylsulfonylalkyl, lower alkenyl, lower alkynyl, aryl, aryl substituted with one or more halogen, lower alkyl or lower alkoxy substituents, lower alkanoyl, alkoxy or halogen substituted lower alkanesulfonyl;

$R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$  and  $R_8$  may be the same or different and may be hydrogen, alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, alkylsulfinylalkyl or alkylsulfonylalkyl, with the proviso that no one substituents group may contain more than six carbon atoms;

X and Y may be O, S, SO or  $SO_2$  with the proviso that X or Y is O, and when X is O, Y is other than O, and when Y is O, X is other than O; and

n is 0 or 1.

CLASS 39P,

143692.

Int. Cl.-C01g 3/00.

A PROCESS FOR THE PREPARATION OF COPPER SULPHATE UTILISING WASTE SULPHURIC ACID.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : BIBHUPADA MOHANTY, RAMESH CHANDRA GUPTA, MURARI MOHAN NANDI AND BHARAT RMAKRISHNA SANT.

Application No. 1729/Cal/76 filed September 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims. No drawings.

A process for the preparation of copper sulphate by the use of waste sulphuric acid obtained from synthetic detergent plants, characterised in that the waste sulphuric acid is first diffused with water to aspecific gravity 1.05–1.1 and adding to it copper sulphate to make its concentration about one per cent, circulating this acid through a tower preheated to 60–100°C and containing copper shots or scrap with air passing up from tower bottom, treating the resulting copper sulphate solution with 0.5–1.0 per cent active carbon, filtering, crystallizing the copper sulphate and washing the copper sulphate crystals with water to free them from impurities and free acid.

CLASS 32F, & F<sub>2</sub>b. & 55E.

143693.

Int. Cl.-C07d 99/04.

A PROCESS FOR THE PREPARATION OF 1, 3-DIHYDRO-1'-DIMETHYLPHOSPHINYLALKYL -3- PHENYLSPIRO ISOBENZOFURANIS.

*Applicant* : HOECHST AKTIENGESSELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

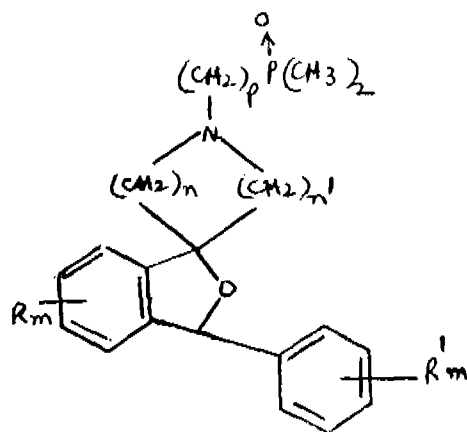
*Inventor* : SOLOMON SAMUEL KLIOZE.

Application No. 93/Cal/77 filed January 24, 1977.

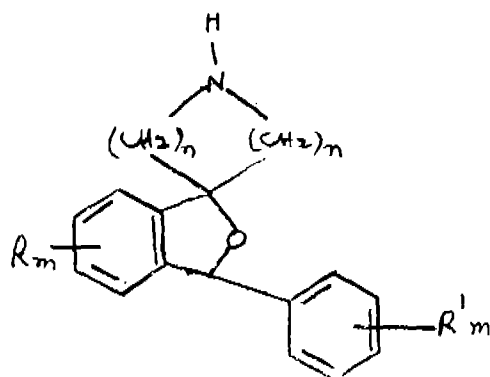
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A process for the preparation of a compound of the formula II.



wherein R and R' are hydrogen, lower alkyl, lower alkoxy, halogen or hydroxy, m and m' are the integers 1 or 2; n and n' are integers from 1 to 3 with the sum of n and n' being 3, 4 or 5; and p is an integer from 1 to 4 and the pharmaceutically acceptable acid addition salts and hydrates thereof which process comprises reacting a 1, 3-dihydro-3-phenylspiro [isobenzofuran-cycloalkane] of the formula III.



wherein R, R', m, m', n and n' are as defined above with a halogenated dimethyl phosphine oxide of the formula



$X-(CH_2)_p P(CH_3)_2$  wherein X is halogen and p is as defined

above, and optionally converting a compound of the formula II, wherein R and or R' is alkoxy, by known methods to a compound, wherein R and/or R' is hydroxy.

CLASS 60D.

143694.

Int. Cl.-A47j 51/08.

A RETRACTABLE SPRING-OPERATED GARMENT HANGING CORD.

*Applicant & Inventor* : MUKUL GOYAL, D/25, PANCHSHEEL ENCLAVE, NEW DELHI-110017, INDIA.

Application No. 36/Del/77 filed February 28, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

A retractable spring operated garment hanging cord assembly comprising two wall brackets to be fixed on the two opposite walls, a nylon cord of suitable length wound up by spring action on a spool fixed inside a reel assembly with its metal

cover and fixed on one of the wall brackets, a flat spring fixed inside the said reel assembly the said metal cover having a small hole at its centre through which one end of the cord is pulled out from the said reel assembly, a locking knob fixed at the end of the cord and resting outside the metal cover of the reel assembly characterised in that the said locking knob is pulled out and secured at the slot of the other wall bracket fixed on the opposite wall, across which the cord has to be stretched.

CLASS 14D, 143695.

Int. Cl.-H01m 27/04.

IMPROVEMENTS IN OR RELATING TO SINTERED POROUS METAL ELECTRODES CONTAINING SILVER CATALYSTS FOR USE AS OXYGEN ELECTRODES IN LOW TEMPERATURE HYDROGEN-OXYGEN FUEL CELL.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors*: VANNIYUR KRISHNASWAMY VENKATASAN, HANDADY VENKATAKRISHNA UDUPA, KALIAPAN SHANMUGAM ARUMUGASAMY GNANASEKHARAN, RAJAM SASTRIGAL PATTABIRAMAN, TIRUVI-DAIMARUDHUR RAMANATHAN JAYARAMAN, CHARINJETHUPUTHENVEEDU JANAKI AMMA INDIRA AND RAMASWAMY CHANDRASEKARAN.

Application No. 32/Cal/75 filed January 6, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

9 Claims. No drawings.

A process for the preparation of sintered porous metal electrodes of the two-layer DSK (Doppel-skeletal-Katalysator) type for use as oxygen electrode in low temperature hydrogen-oxygen fuel cell by mixing carbonyl nickel or pure nickel with a silver catalyst characterised in that the silver catalyst is prepared directly in powder form by (i) forming silver *in situ* from silver carbonate, (ii) forming silver cadmium on alumina carrier, or (iii) impregnating acetylene black with silver further characterised in that pure nickel or carbonyl nickel is mixed with any of the silver catalysts thus obtained using naphthalene as filler to form an operating layer, compacting by cold pressing the operating layer, with pure or carbonyl nickel as a protective layer and sintering the compact in the range of 600°C to 800°C in hydrogen or inert atmosphere.

CLASS 14D, 143696.

Int. Cl.-H01m 27/04.

IMPROVEMENTS IN OR RELATING TO SINTERED POROUS METAL HYDROGEN ELECTRODES FOR USE IN HYDROGEN-OXYGEN FUEL CELL.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors*: VANNIYUR KRISHNASWAMY VENKATASAN, HANDADY VENKATAKRISHNA UDUPA, RAJAM PATTABIRAMAN, THIRUVIDAIMARUTHUR RAMANATHAN JAYARAMAN AND CHARINJETHU PUTHENVEEDU JANAKI AMMA INDIRA.

Application No. 67/Cal/75 filed January 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims. No drawings.

An improved process for the preparation of sintered porous metal hydrogen electrodes of the two layer DSK (Doppel skeletal Katalysator) type for use in Low Temperature Hydrogen-Oxygen Fuel cells comprising a protective and an operative layer, characterised in that the protective layer is made of pure nickel of 37—45 micron particle size and the operating layer is made up of pure nickel, preserved skeleton Raney nickel catalyst containing copper as a promotor in particle size of 45—53 microns in 1:1 ratio and 10% by weight of naphthalene as filler by cold pressing and sintering the compact in hydrogen atmosphere.

CLASS 34A & 136 E.

143697.

Int. Cl.-B29d 27/00.

PROCESS FOR THE PRODUCTION OF PILE SURFACED SYNTHETIC MATERIAL.

*Applicant*: IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON, SW1P 3JF, ENGLAND.

*Inventors*: ANTON ALFRED ARTHUR GIOVANELLI AND ECKHARD WOLFGANG SCHMIDT.

Application No. 139/Cal/75 filed January 25, 1975.

Convention date February 4, 1974/(05021/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims. No drawings.

A process for the production of pile surfaced synthetic materials comprising feeding a synthetic polymeric thermoplastic material and a backing web such as herein described which serves as a carrier for the synthetic polymeric thermoplastic material and as a support, when said material is filament forming to a heated surface with the thermoplastic synthetic polymeric material between the backing web and the surface under conditions such as herein described where the polymeric material is filament forming and the polymeric material adheres to the surface and bonds to the backing web, characterised in that withdrawing the backing web from the surface so that as the backing web is so withdrawn the synthetic polymeric material adheres thereto and is drawn into fibrils due to its adhesion to the surface but the fibrils remain integral with the remainder of the polymeric material which is laminated to the backing web, rendering the polymeric material non-filament forming by cooling, separating in any conventional manner the fibrils from the surface and subsequently separating the pilous synthetic polymeric layer from the backing web.

CLASS 97C.

143698.

Int. Cl.-H05b 1/00.

A WATER GEYSER

*Applicant & Inventor*: RAVI KIRAN SOOD, OF H-3, BHIMNAGAR, HAUS KHAZ, NEW DELHI-110016, INDIA.

Application No. 833/Cal/75 filed April 25, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

A water geyser comprising a water chamber with a water inlet and outlet, a heating element disposed within said chamber, a float provided with said tank, a float pin or tube mounted or held on said float and extending beyond said tank, characterized in a pair of electrical contacts associated with said float pin and such that the float pin is adapted to make or break said contacts, said heating element connected to a power source through the make of said contacts, the first of said contacts being a stationary electrical contact is provided on a contactor arm, one end of said contactor arm being held to an insulated arm connected directly or through a switch to a power source, the second of said contacts being a moveable contact is also provided on a contactor arm and said contactor arm is held at one end to a support arm, said support arm hinged to one end to a support body, the opposite end of said support arm being held to said float pin, a terminal being provided on said support body for electrically connecting a lead of the heating element to said contact, said second contact having a movement dependant on the movement of said float pin.

## CLASS 113B.

143699.

Int. Cl.-F24c 15/00.

## IGNITTING APPLIANCE.

*Applicant & Inventor* : GOPI KISHAN KABRA, OF D-24, DEFENCE COLONY, (LINK ROAD), NEW DELHI-110024, INDIA.

Application No. 1917/Cal/75 filed October 4, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims.

An igniting appliance comprising a head assembly adapted to be removably held to a gas cylinder, said head assembly having an outlet and inlet and wherein said outlet is adapted to be in flow communication with an inlet either directly or through a valve, means in the outlet of said cylinder and such that when said head assembly is held to said cylinder the gas from said cylinder is capable of flowing into said head, assembly clamping means provided with said head assembly and consisting of a spring loaded ring adapted to engage within a groove provided with said gas cylinder.

## CLASS 113B.

143700.

Int. Cl.-F24c 15/00.

## IGNITING APPLIANCE.

*Applicant & Inventor* : GOPI KISHAN KABRA, OF D-24, DEFENCE COLONY, (LINK ROAD), NEW DELHI-110024, INDIA.

Application No. 1918/Cal/75 filed October 4, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

9 Claims.

An igniting device comprising a gas cylinder and a head assembly, an outlet provided with said cylinder and capable of being in flow communication with an inlet of said head assembly when the head assembly is held to said cylinder, a discharge valve provided in said outlet and consisting of a valve seat, a spring loaded plunger having at one end a head adapted to sit on said valve seat in the absence of a pressure and thereby prevent a flow of gas into said outlet, a support provided at the opposite end of said plunger and having a hole for the traverse of the plunger therethrough when a pressure is applied to said plunger and the head is no longer in contact with said valve seat and whereby there is a flow of gas into said outlet.

## CLASS 69D.

143701.

Int. Cl.-H01h 36/00.

## ELECTROMAGNETIC SWITCHING DEVICE.

*Applicant* : MOSKOVSKY AVIATIONNY INSTITUT IMENI SERGO ORDZHONIKIDZE, OF VOLOKOLAMSKOE SHOSSE, 4, MOSCOW, USSR.

*Inventors* : KONKORDY INNOKENTIEVICH KHARAZOV, GENNADY VIKTOROVICH NETSVETAEV AND VALERY IVANOVICH TROFIMOV.

Application No. 311/Cal/76 filed February 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

An electromagnetic switching device comprising a magnetic circuit with control windings and at least one magnetically responsive contact with at least three contact members or at least two magnetically responsive contacts each with at least two contact members; said magnetic circuit has at least two free side legs each mounting one control winding said magnetic circuit is made so that, when a signal is fed to one of the

control windings, magnetic fluxes are produced in the side free legs, which change their direction for the opposite one; each of the free side legs with a control winding mounting one contact member of at least one magnetically responsive contact.

## CLASS 127A.

143702.

Int. Cl.-F16d 13/00.

## A RADIATOR FAN CLUTCH.

*Applicant & Inventor* : GHANASHYAM SHANKAR TAGAONKAR, OF D-24, DEFENCE COLONY, NEW DELHI-110024, INDIA.

Application No. 401/Cal/76 filed March 5, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

A radiator fan clutch adapted to disengage the radiator fan from a driven pulley comprising a shaft having said driven pulley mounted thereto, said pulley having a bearing member extending therefrom, a fan hub carrying the fan blades slidably mounted on said shaft, said hub carrying an embracing member adapted to cooperate with the bearing member of said pulley an actuator for imparting a slidable movement, whenever desired, to said hub and such that only when the embracing member which consists of a plurality of inclined fingers and a lining providing on the undersurface of said fingers embraces the bearing member of said pulley the hub rotates in conjunction with the pulley.

## CLASS 63B &amp; 69D.

143703.

Int. Cl.-H01f 3/00.

## ALTERNATING-CURRENT MAGNET CORES.

*Applicant* : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, WEST GERMANY.

*Inventor* : SIEGFRIED SEIDEL.

Application No. 484/Cal/76 filed March 19, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

An alternating-current magnet core provided with a shading ring for influencing the magnetic field at one pole face of the magnet when it is in use, a securing portion of which shading ring extends around a shank portion of a rivet, which projects from a side face of the core that is substantially perpendicular to the said one pole face, so that the rivet extends between the said securing portion and the said one pole face, the said rivet being employed to fix the said securing portion against the said side face whilst bearing laterally against the said securing portion, in a direction away from the said one pole face, so as to hold the said ring under tension across the said one pole face.

## CLASS 48C.

143704.

Int. Cl.-H01b 17/62, 19/00.

## A METHOD FOR MANUFACTURING AN INSULATION FOR HIGH TENSION DEVICES.

*Applicant* : OY STROMBERG AB, OF BOX 118, 00101 HELSINKI 10, FINLAND.

*Inventor* : ASKO VELI LISAKKI KYTTA.

Application No. 2296/Cal/76 filed December 31, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A method for manufacturing an insulation for high tension devices comprising insulating foil layers and metal foil layers

disposed by turns one upon the other, according to which method an insulating foil (3) is wound as a continuous band (1) on an insulation body (2) and a metal foil band (1) is wound in between the insulating foil (3) layers in stumps, characterized in that before the continuously fed metal foil band (1) arrives at the insulation body (2), it is provided, at a special weakening station (7), with spaced weakenings transversal to the running direction of the band (1), and that the metal foil band (1) is retained at a retaining station (6) at desired moments and for desired periods of time so that the metal foil band (1) is torn off along one weakening situated, in the running direction of the metal foil band, after said retaining station (6).

#### OPPOSITION PROCEEDINGS

##### (1)

An opposition has been entered by Orissa Cement Limited to the grant of a patent on application No. 141899 made by Greaves Foseco Limited.

##### (2)

An opposition has been entered by Belpahar Refractories Limited to the grant of a patent on application No. 141909 made by Dalmia Institute of Scientific and Industrial Research and Orissa Cement Ltd.

##### (3)

An opposition has been entered by Domestic Appliances to the grant of a Patent on application No. 142093 made by Globe Super Parts.

##### (4)

An opposition has been entered by Belpahar Refractories Ltd. to the grant of a patent on application No. 142353 made by Dalmia Institute of Scientific & Industrial Research.

##### (5)

An opposition has been entered by The Associated Cement Companies Ltd. to the grant of a patent on application No. 142401 made by Prerovske Strojirny, Narodni Podnik.

#### CORRECTION OF CLERICAL ERROR UNDER SECTION 78(3)

The title of the invention in the application and specification of Patent Application No. 142072 (earlier numbered 1367/Cal/75), the acceptance of the complete specification of which was notified in Part III, Section 2, of the Gazette of India dated the 28th May, 1977, has been corrected to read as "Improvements in or relating to internal combustion engines" under Sub-Section (3) of Section 78 of the Patents Act, 1970.

#### PATENTS SEALED

140478 140675 140782 140845 140886 140923 140944 141080  
141092 141294 141323 141398 141401 141423 141445 141447  
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141742 141837 141859 141875

#### AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Produits Chimiques Ugine Kuhlmann, of 25 Boulevard de L'Amiral Bruix, Paris 16<sup>eme</sup>, France, have made an application under Section 57 of the Patents, 1970 for amendment of specification of their application for patent No. 141955 for "A method of extracting chromium as a chromate from chromium ores". The amendments are by way of explanation and correction so as to define the invention more correctly and clearly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification, at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

#### AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendments proposed by Takeda Chemical Industries Ltd., in respect of patent application No. 141283 as advertised in Part III, Section 2 of the Gazette of India dated the 20th August 1977 have been allowed.

### COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970, in respect of Calendar year 1976 generally on account of want of requests for licences to work the patented inventions. Persons who are interested to commercially work the said patents may contact the patentee for the grant of a licence for the purposes.

Sl. No.	Patent No.	Date of Patent	Name & Address of the Patentee	Brief title of the invention
1	2	3	4	5
1.	136462	15-11-1972	Renefag S. A., 42 Chemin du Ruth, 1223 Cologny, Geneva, Switzerland.	N-(diethylaminoethyl)-2-methoxy-5-methylsulphonyl-benzamide.
2.	136466	12-6-1972	Michel Feltz, 14e Rue Hotteux, Ayeneux, Belgium.	Producing a wears resistant ferrous alloy member.
3.	136470	29-9-1972	Amchem Products Inc., Brookside Avenue, Ambler, Pennsylvania, U.S.A.	A composition for clearing & activation of ferrous and/or zinc surface.
4.	136474	15-5-1972	Rhone Progil Industries, 22 Avenue Montaigne, Paris, France.	Carbon disulphide.
5.	136475	30-10-1972	Halcon Internationale Inc., 2 Park Avenue, New York 10016.	1,4-dicyano butenes.

1	2	3	4	5
6.	136479	24-1-1973	Union Laitiere Vandoise, Saint Martin 35, 1000 Lausanne 17, Switzerland.	Hydrolyzate of proteins for use as food stuffs.
7.	136485	20-4-1972	F. Hoffmann La Roche & Co., 124-184 Grenzacherstrasse, Basle, Switzerland.	Benzodiazepine derivative.
8.	136488	15-5-1972	Mundipharma AG., Bahnhofstrasse 26, CH 4310 Rheinfelden, Switzerland.	Slow release pharmaceutical composition.
9.	136504	30-12-1972	Cyanamid India Ltd., Nyloc House, 254-D <sub>2</sub> , Bombay-25.	Racemic mixture of 2 amino-n-butanol.
10.	136506	10-11-1972	L'opochimie, L'Hercule, Rue de Industries, Fontvieille, x-Monaco	Methylcobalamine.
11.	136510	20-4-1972	Pfizer Inc., 235 East 42nd St., New York.	2-phenyl-astriazine-3, 5-(2H-4H) diones.
12.	136525	7-2-1973	Centre D'etudes Experimentales -et- Cliniques de Physiobiologie de Pharmacologie et D'eutonomie, 76 rue de la Convention, 75 Paris 15 eme.	Pyridazine derivatives.
13.	136527	15-2-1973	Kao Soap Co. Ltd., 7-18, 1-chome, Nihonbashi-Bakurocho Chuo-ku, Tokyo.	Skates of sandwich arrangement.
14.	136535	11-7-1972	Rohm & Haas Co., Independence Mall West, Pennsylvania, U.S.A.	Polymers.
15.	136538	26-7-1972	Artos Dr. Ing Meier, 2 Hamburg 1, Heidenkampsweg 66, Federal Republic of Germany.	Combined pre-cleaning bulking development bulking stabilisation of dyeing of textile webs of synthetic fibres.
16.	136541	2-5-1972	Cibb-Geigy AG., 141 Klybeckstrasse Basle, Switzerland.	Iminoisoindolinone dyestuffs.
17.	136549	17-1-1973	Commisariat A L'energie Atomique 29 rue de la Federation, Paris 15e.	Sampling gas within the rotating bowl of a centrifuge.
18.	136577	30-1-1973	Oxysynthese, 6 Rue Cognacq-Jay, 75007, Paris.	Apparatus for purification of industrial flue gases combustion products & gaseous effluents before rejection to atmosphere.
19.	136579	18-5-1972	Schenectody Chem Inc., POB 1046 Schenectady, N.Y., U.S.A.	Preparing amide imide hydantoin polymers.
20.	136582	25-1-1973	Renefag S.A., 42 Chemin du-Ruth, 1223 Cologny, Geneva, Switzerland.	Preparation of N-(ethyl-2-pyrrolidyl methyl) 2-methoxy-5-ethylsulphonyl benzamide.
21.	136599	30-5-1972	Unilever Ltd., Unilever House, Blackfriars, London E.C. 4.	Instant tea powder.
22.	136608	25-7-1972	American Cyanamid & Co., Wayne, New Jersey, U.S.A.	Preparation of novel 1, 2-dialkyl-3, 5- diphenyl pyridium salts.
23.	136611	28-11-1973	I.C.I. Ltd., Imperial Chemical House, Millbank, London S.W.1.	Des-lys 29-ala-30 porcine insulin or des-lys-2 d-ala-30-bovine insulin.
24.	136614	26-8-1972	Shell Internationale Research Maatschappij B. V., 30 Carel Van Bylandtlaan, Hague, Netherlands.	Concentration & purification of aqueous solutions of ethylene oxide.

1	2	3	4	5
25.	136624	16-6-1972	Banque Pour L'expansion Industrielle "Banexi", 1 Boulevard Hanssmann. Paris 9eme.	Composition for elimination of petroleum residues by biodegradation.
26.	136627	4-10-1972	Fratmann AG., 5 Chemin du Mont Blanc, 1224 chene Bougenies/Switzerland.	Preparation of N-(1-ethyl-alpha pyrrolidyl-methyl)-2-methoxy-5-sulfonamidobenzamide.
27.	136635	20-4-1972	Rhone Poulenc S.A., 22 Avenue Montaigne, Paris 8e.	13-benzoylphenyl acetic acids.
28.	136638	18-5-1972	Vyzkumny Ustav Organickychi Synter Pardubice, Rybitvi, Czechoslovakia.	Automatic production of azo dyestuffs.
29.	136672	17-11-1972	Process Evaluation & Development Corp., 3 Hanover Square, New York.	Production of pulp from depithed sugarcane bagasse.
30.	136674	20-4-1972	Rhone Poulenc S.A., 22 Avenue Montaigne, Paris 8e.	3-benzoylphenyl alkanoic acids.
31.	136680	30-3-1973	The Goodyear Tire & Rubber Co., 1144 East Market St., Akron, Ohio. U.S.A.	Improvements in preparation of resin encapsulated crumb rubber.
32.	136681	30-5-1973	Labaz, 39 Avenue Pierre ler de Serbie, 75 Paris 8e.	Benzo(b) thiopliene derivatives
33.	136696	20-4-1972	Pfizer Inc., 235 East 42nd st., New York.	3, 4-dihydro-6, 7-substituted- 2, 3-lower alkyl-4-oxo-1(2H)-quinazole carboxylic acid derivative.
34.	136708	31-7-1972	Neypric-BMB & another rue du General Mangin—Gernoble, France.	Dispersion of fibres and particles.
35.	136717	7-10-1972	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20 London S.W.1.	Provolone cheese flavouring composition.
36.	136747	28-7-1972	Hershel Earl Wright, 12 Eight Drive, Decatur, Illinois 62525	Foam producing & dispensing device.
37.	136752	26-9-1972	Glaverbel Mecaniver, Chaussee de la Hulpe 166, watermael-Boitsfort, Belgium.	Colouring a glass body which may be a soda lime glass or a borosilicate glass containing reducing iron.
38.	136753	24-11-1972	Shell Internationale Research Maatschappij Boulevard, 30 Carel Van Bylandtlaan, Hague, Netherlands.	Hydrogen.
39.	136768	27-7-1971	Johnson Johnson, 501 Georgy St., New Brunswick, New Jersey.	Synthetic resin binder composition for bonding porous absorbent fibrous material.
40.	136775	30-11-1972	International Nickel Ltd., Thames House, Millbank, London S.W.1.	Forming negative ion active mass on a metal foil.
41.	136777	9-7-1973	Bayer AG, Leverkusen, Federal Republic of Germany.	New 2-alkylaminodihydro-coupyridine.
42.	136784	20-6-1972	I.C.I. Ltd., Imperial Chemical House, Millbank, London S.W.1	Pigmented laminar pile surfaced products.
43.	136792	30-5-1973	Monsanto Co., 800 North Lindbergh Boulevard, St. Louis, Missouri 63166.	N-phosphonomethyl glycine.
44.	136813	9-8-1972	Rhone Poulenc S.A., 22 Avenue Montaigne, Paris 8e.	An article designed for biological use and resistant to incrustation in biological use.

1	2	3	4	5
45.	136819	21-10-1972	Shell Internationale Research Maatschappij Boulevard, 30 Carel Van Bylandtlaan, Hague Netherlands.	Process for effecting direct oxidation of ethylene with molecular oxygen to ethylene oxide.
46.	136821	28-5-1973	Bayer A.G., Leverkusen, Federal Republic of Germany.	Low viscosity pasty rubber composition.
47.	136822	4-5-1972	Energy Sciences Inc., 111 Terrace Hall Avenue, Burlington, Massachusetts, U.S.A.	Surface sterilisation of materials.
48.	136841	4-7-1972	American Cyanamid, Wayne, New Jersey, U.S.A.	2, 6 dinitroaniline.
49.	136842	5-5-1972	Bristol Myers Co., 345 Park Avenue, New York.	Rearrangement of 6-acylamide penicillanic acid sulfoxide.
50.	136843	26-4-1972	Shell Internationale Research Maatschappij Boulevard, 30 Carel Van Bylandtlaan, Hague, Netherlands.	Recovery of ethene oxide.
51.	136844	15-9-1972	International Nickel Ltd. Thames House, Millbank, London S.W.1	Preparing nickel chromium steel casting.
52.	136863	24-5-1972	Norton Co., 1 New Bond St., Worcester, Massachusetts, U.S.A.	Alumina zirconia nanocrystals.
53.	136864	14-3-1977	Etat Francais, 12 Quai Henri IV, Paris 4e.	Propergol.
54.	136865	11-9-1972	Pfizer Inc., 235 East 42nd St., New York,	Alpha-carboxyaryl methyl and alpha carboxyloxyaryl methyl penicillins.
55.	136866	9-10-1972	Hayashibara Biochemical Laboratories Inc., No. 2-3-1-chome, Shimoishini Okayama shi, Okayama, Ken, Japan.	Pullulan.
56.	136867	16-11-1972	Imperial Chemical Industries Ltd., Imperial Chemical House, Millbank, London S.W.1.	Surface mediated granular propellant.
57.	136877	13-7-1972	Glaverbel Mecaniver, Chaussee de la Hulpe 166, Watermael, Boitsfort, Belgium.	Sheet glass.
58.	136878	13-7-1972	Do.	Do.
59.	136886	12-12-1972	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20.	Bacteriological quality protease.
60.	136889	11-8-1972	Cincinnati Milacron Chemicals Inc., Reading, Ohio, U.S.A.	Synthetic polymer containing a dimethyltin bis (octyl-thio alkanate) as a stabiliser.
61.	136918	10-1-1973	Braunschweigsche Maschinenaustalt, 3300 Braunschweig, Amalten Bahnhof 5, Federal Republic of Germany.	Extraction of plant products containing sugar.
62.	136926	9-10-1972	Ceylon Institut of Scientific & Industrial Research, 363 Bandhaloka Mawatha, Colombo 7, Sri Lanka.	A process whereby palm. saps are conditioned.
63.	136930	5-3-1973	Metallgesellschaft AG., 16 Frankfurt AM Reutweg 14, West Germany.	Sponge iron.

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64.	136947	9-8-1972	Eli Lilly & co., 740 South Albama Street, Indiana, U.S.A.	Novel quinoline compounds.
65.	136950	16-8-1972	Snamprogetti S. p. A., 16 Corso Venezia, Milan, Italy.	Unsaturated nitriles.
66.	136951	17-8-1972	Do.	Elastomeric latex.
67.	136957	5-9-1972	Ciba-Geigy A.G., Klybeckstrasse 141, Basle, Switzerland.	New disazo pigments.
68.	136976	3-10-1972	Westinghouse Electric Corp., Pittsburgh, Pennsylvania, U.S.A	Rocking compaction of refractory metal powders.
69.	136985	16-7-1973	Council of Scientific Industrial & Research, Rafi Marg, New Delhi.	Process for upgrading the powdery iron oxide (blue dust).
70.	136995	19-6-1973	Polysar Ltd., Sarnia, Ontario, Canada.	Butadiene 1, 2 recovery process.
71.	137002	5-5-1972	Pfizer Corp., 15 1/2 Avenida Santa Isabel, Colon, Republic of Panama.	Dextro rotatory form of a tetrahydroquinoline compounds.
72.	137016	29-5-1972	Process Evaluation & Development Corp., 3 Hanover Square, New York.	Paper pulp.
73.	137017	29-5-1972	Do.	Cellulosic pulp.
74.	137023	15-12-1972	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20.	Supported nickel catalyst.
75.	137029	29-7-1972	Pfizer Corp., 15 1/2 Avenida Santa Isabel, Colon, Republic of Panama.	A diagnostic reagent for Australia antigen or the antibody thereto.
76.	137030	19-12-1972	Union Carbide Corp., 270 Park Avenue, New York.	Degradable polyolefin film.
77.	137040	20-4-1972	Pfizer Corp., 15 1/2 Avenida Santa Isabel, Colon, Republic of Panama.	N-benyl indoline derivatives.
78.	137041	20-4-1972	Michiro Inoue, 12 Tada Machi Nakano Ku, Tokyo, Japan.	Bis (hydroxymethyl) pyridine dicarbonate derivatives.
79.	137049	29-11-1972	Solvay & Cie, Rue de Prince Albert 33, B-1050 Brussels, Belgium.	Polymerisation of olefins.
80.	137050	20-12-1972	S.A. Des Etablissements Roure-Bertrand Fils & Justin Dupont 17 Bis rue Legendre, Paris.	Methyl (2-n-propyl-3-Keto Cyclopent-1-yl)
81.	137069	18-5-1973	Pfizer Corp., Calle 15-1/2 Avenida Santa Isabel, Colon, Panama.	Electric acid production.
82.	137097	17-7-1972	Hindustan Lever Ltd., Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20.	Decolourisation of sal fat.
83.	137101	25-6-1973	Shell Internationale Research Maatschappij Boulevard, 30 Carel Van Bylandtlaan, Hague, Netherlands.	Partial combustion of carbonaceous fuels to produce substantially soot free gas.
84.	137111	21-8-1973	Siemens A.G., Berlin & Munich, West Germany.	Production of gas tight-connections to crystalline silicon carbide components.
85.	137113	21-8-1972	Lubrizol Corp., POB 3057 Euclid Station, Cleveland, Ohio, U.S.A.	Oil soluble basic barium containing compositions.
86.	137116	10-10-1972	The Wellcome Foundation Ltd., 183-193 Euston Road, London NW 1.	2, 4-diamino-5-benzoylpyrimidines.

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87.	137118	18-1-1973	Hercules Inc., 910 Market St., Wilmington, Delaware, U.S.A.	Aromatic amine compounds
88.	137124	7-8-1972	L'air Liquide Societe Anonyme Pour L'etude et L'exploitation Des procedes Geoges Claude, 75 Quai d'Orsay, 75 Paris.	Process installation for the oxidation of an oxidisable. substance notably a hydro carbon.
89.	137127	15-2-1973	Georg Utz A.G., Autof 278, 5620 Brenganten, Switzerland.	Pellets.
90.	137128	30-3-1973	Hindustan Lever Ltd., Hindus- tan Lever House, 165-166 Backbay Reclamation, Bom- bay-20.	Purification of rice bran oil.
91.	137130	15-1-1973	S. A. Des Etablissements Roure- Bertrand Fils of 17 Bis rue Legendre, Paris.	Naphthopyrons.
92.	137136	12-9-1972	Westinghouse Electric Corp., Pittsburgh, Pennsylvania, U.S.A.	A method of preparing cured resinous composition suitable for insulating electrical appa- ratus.
93.	137151	17-11-1972	The Goodyear Tire & Rubber Co., Akron, Ohio, U.S.A.	Self stable vinyl pyridin rubber latex & adhesive.
94.	137152	6-2-1973	Science Union et Cie, 14 rue du Val d'er, 92 Suresnes 92150, France.	New amine propane derivatives.
95.	137154	21-12-1972	Ethicon Inc., Sommerville, U.S.A.	Electropolishing of drilled surgical needle.
96.	137163	2-8-1972	Hoechst AG., 6230 Frankfurt/ Main, Federal Republic of Germany.	Aromatic amines.
97.	137167	29-11-1972	Bayer AG., 22C Leverkusen, Fe- deral Republic of Germany.	Pigment preparations.
98.	137180	7-7-1972	Rohn & Haas Co., Independence Mall West, Philadelphia, Pen- sylvania, U.S.A.	Modified poly (vinyl halide) compositions.
99.	137184	4-10-1972	Uddeholms Aktielbolag, Uddeh- olm, Sweden.	Metallurgical process.
100.	137185	19-10-1972	Glaverbel Mecaniver, Chaussee de la Hulpe 166, Waterwael, Boitsfort, Belgium.	Treating a body of vitreous or partly vitreous material.
101.	137197	20-6-1972	I. C. I. Ltd., Imperial Chemical House, Millbank, London S.W. 1.	Bipyridyls.
102.	137198	27-9-1972	Phillips Petroleum Co., Bart- lesville, Oklahoma, U.S.A.	Preparing metal salt of aromatic carboxylic acid.
103.	137199	12-6-1973	Rechercher Pharmaceutiques et Scientifiques 6, rue Lincoln, Paris.	5-substituted cysteines and cysteine esters.
104.	137230	18-8-1972	Snamprogetti S.p. A., 16 Corso Venezia, Milan, Italy.	Catalytic production of un- saturated nitriles.
105.	137236	3-12-1973	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20.	Detoxifying nutrient material containing tannins.
106.	137244	1-2-1973	Sherritt Gordon Miles Ltd., Ontario, Canada.	Recovery and separation of nickel and cobalt from re- duced laterite nickel ore.
107.	137271	19-7-1972	Toyama Chemical Co. Ltd., 18, 1-chome Nihonbashi Ka- yaba-cho, Japan.	7-acylamide-3-cepien-4-carboxyl- lic acids.

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108.	137275	17-7-1972	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20.	Skin moisturiser based on glutamic acid and/or glutamine and/or their salts.
109.	137276	1-8-1972	National Research Development Corpn., 66-74 Victoria St., London S.W.-1.	Production of glass fibre reinforced cementitious products.
110.	137289	13-10-1972	Tea Research Association, Royal Exchange, 6 Netaji Subhas Rd., Calcutta.	Continuous tea-rolling machine.
111.	137306	27-5-1972	Rohm & Haas Co., Independence Mall West, Philadelphia, Pennsylvania, U.S.A.	Process for introducing amine methyl groups into an aromatic addition polymers.
112.	137307	18-7-1972	Hoechst AG., 6230 Frankfurt/Main, Federal Republic of Germany.	New modification of monoazo pigments.
113.	137308	1-8-1972	Ciba Geigy AG., 141 Klybeckstrasse Basle, Switzerland.	Azo dyestuffs.
114.	137321	4-10-1974	Director General, Indian Council of Medical Research, Ansari Nagar, New Delhi.	Preparation of crude human chorionic gonadotropin.
115.	137346	6-3-1973	Bayer AG., 22C Leverkusen, Federal Republic of Germany.	Polyazo dyestuffs.
116.	137350	29-1-1974	Agance Nationale De Valonsation de la Recherche, 13 Rue Madeleine Michelis 92200 Neuilly-Sur-Seine.	Antigen fraction.
117.	137380	16-7-1973	Hindustan Lever Ltd., 165-166 Backbay Reclamation, Bombay-20.	Soap tablets.
118.	137391	15-11-1972	Henry Meorge Petrow, 33 Concord Avenue, Sangus, Massachusetts, U.S.A.	Antimony oxide colloidal solution.
119.	137410	30-10-1972	Hindustan Lever Ltd., 165-166 Backbay Reclamation, Bombay-20.	Translucent or transparent tooth paste.
120.	137411	23-10-1972	Do.	Visually clear dentrifice.
121.	137415	24-10-1972	Telefonaktiebolaget L. M. Ericsson, 126 25 Stockholm, Sweden.	Pickling aluminium bodies.
122.	137425	20-2-1975	Council of Scientific & Industrial Research, Rafi Marg New Delhi.	Asbestos cement.
123.	137438	4-9-1972	Ferro Corpn., Erieview Plaza, Cleveland, Ohio, U.S.A.	Anthelmintic salicylanilides.
124.	137450	11-8-1972	Hoechst -AG., 6230 Frankfurt/Main Federal Republic of Germany.	Furane compound.
125.	137507	20-3-1974	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20.	Dehydroxylation of hardened castor oil.
126.	137518	22-5-1973	Improved Machinery Inc., Burke St., Nansha, New Hampshire, U.S.A.	Gaseous reaction of material.
127.	137523	20-4-1972	Hoechst AG., 6230 Frankfurt/Main Federal Republic of Germany.	Benzodiazepine.
128.	137528	26-8-1974	American Home Products Corpn., 685 Third Avenue, New York.	Preparing crystalline sodium 6-(1-aminocyclohexane darboxamide) penicillinatc.

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129.	137545	20-10-1972	Hoechst AG., 6230 Frankfurt/Main, Federal Republic of Germany.	Readily dispersible pigments.
130.	137592	19-9-1972	Do.	Pigment composition for the dope dyeing of poly acrylonitrile.
131.	137630	16-7-1973	Council of Scientific & Industrial Research, Rafi Marg, New Delhi.	Reduction of phosphorous content from high phosphorous manganese ores by selective leaching.
132.	137714	1-9-1971	Sankyo Co. Ltd., & Another, 1-6, 3-chome, Nihonbashi, Homcho, Chuo ku, Tokyo.	N-substituted tetrachloro phthalmic acid derivatives.
133.	137734	24-1-1973	Carrier Corp., Syracuse, New York.	Electrostatic precipitation.
134.	137738	18-8-1972	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20.	Cycloaliphatic monoterpene alcohol.
135.	137841	11-8-1972	Hoechst AG., 6830 Frankfurt/Main, Federal Republic of Germany.	Optical textile materials.
136.	137849	31-7-1973	Shell Internationale Research Maatschappij Boulevard, 30 Carel Van Bylandtlaan, Hague, Netherlands.	Gases containing hydrogen and carbon monoxide.
137.	137872	30-11-1972	Hoechst AG., 6830 Frankfurt Main, Federal Republic of Germany.	Novel soluble disazo dye-stuffs.
138.	137881	29-8-1972	Do.	Water soluble mono and disazo dyestuffs.
139.	137892	4-12-1972	Hindustan Lever Ltd., Hindustan, Lever House, Bombay-20.	Hair control preparation.
140.	137895	22-1-1973	Union Carbide Corp., 270 Park Avenue, New York.	Selective bsorption process for air separation.
141.	137901	23-8-1972	Bristol Myers Co., 630 Fifth Avenue, New York.	Penicillin compounds.
142.	137910	13-12-1972	Hoechst AG., 8630 Frankfurt/Main, Federal Republic of Germany.	Chlorine.
143.	137921	20-4-1972	Fisons Pharmaceuticals Ltd., 12 Derby Rd., Loughborough, Leicestershire, England.	Bis-chromonyl salts.
144.	137960	1-3-1973	Celanese Corp., 1211 Avenue of Americas, New York.	Improved smoking. composition.
145.	137976	14-10-1971	The Mead Corp., Talbolt Tower, Dayton, Ohio 45402, U.S.A.	Preparing wet proofed catalyst composition for use in conducting chemical reaction between reactants contained in two or more fluid phases
146.	137979	8-12-1972	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20.	Preparing stabilised mustard seeds flavour ingredient.
147.	138050	10-5-1973	NL Industries Inc., 111 Broadway New York.	Sintered unitary ceramic bodies.
148.	138062	20-4-1972	American Home Products Corp., 685 Third Avenue, New York 17.	Steroid compounds.
149.	138063	9-11-1972	Do.	Do.
150.	138109	9-11-1972	Hoechst AG., 6230 Frankfurt/Main, Federal Republic of Germany.	Oil soluble dyestuff mixtures.

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151.	138128	16-10-1973	Hindustan Lever Ltd., Hindustan Lever House, Bombay-20.	Super fatted soap tablets.
152.	138129	16-8-1972	Snamprofetti S.p. A., 16 Corse Venezia, Milan, Italy.	Unsaturated Nitriles.
153.	138132	31-10-1972	Celanese Corp., 522 Fifth Avenue New York.	A moulding resin composition.
154.	138156	30-8-1973	Stitching Bedrijven Van Het Nederlands Instituut Voor Zui Velonderzoek, Kernhemseweg 2, Netherlands.	Fat emulsion.
155.	138167	1-12-1967	Universal Oil Products Co., No. 19 UOP Plaza Alguin & Mt Prospect Rds., Des Plaines, Illinois, U.S.A.	Hydrocarbons.
156.	138168	3-1-1937	Hoechst AG., 6230 Frankfurt/Main, Federal Republic of Germany.	New water insoluble disazo dye-stuffs.
157.	138174	15-2-1974	Canadian Industries Ltd., 630 Dorchester Boulevard West, Montreal 101, Quebec, Canada.	Alkali metal amides.
158.	138179	20-4-1972	Herchel Smith, 500 Chestnut lane, Wayne, Pennsylvania, U.S.A.	Steroid compounds.
159.	138180	20-4-1972	Do.	Do.
160.	138181	20-4-1972	Do.	Do.
161.	138182	20-4-1972	Do.	Do.
162.	138185	24-10-1973	Do.	N-organo-N-phosphono-methyl-glycine-N-oxides and salts thereof.
163.	138194	5-5-1973	Hoechst AG., 6230 Frankfurt/Main, Federal Republic of Germany.	Pesticidal composition.
164.	138202	25-1-1973	Union Carbide Canada Ltd., 123 Eglinton Avenue East, Toronto Ontario, Canada.	Fibre forming polyamide.
165.	138204	18-3-1974	Pfizer Inc., 235 East 42nd St., New York-17.	Methyl-3-(2-quinoxalinyll methylene) carbazate N <sup>1</sup> N <sup>4</sup> dioxide.
166.	138205	20-4-1972	American Hone Products Corporation, 685 Third Avenue, New York.	Cyclopentene derivatives.
167.	138226	31-1-1973	Hoechst A. G., 6230 Frankfurt/Main, Federal Republic of Germany.	Wet treatment or impregnation and drying of textile materials.

**PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"**

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

*No. & Title of the Invention*

- 127015 (1-3-1972) New anthra quinone dyes, process for their preparation and synthetic polyamides dyed therewith.
- 131471 (24-5-1971) Process for urea synthesis.
- 132473 (20-4-1972) Process for the preparation of triazolo-benzodiazepine 5N-oxide derivatives.
- 132806 (6-9-1971) Process for preparing S-benzyl-N, N-disecbotyl-thiolcarbamate.
- 132944 (17-9-1971) Obtaining a predetermined salt concentration within an aqueous solution using micellar dispersions.

- 134164 (3-1-1972) A process for the preparation of new herbicidal N-(1-alken-1-yl) amino-S-triazine compounds.
- 134187 (5-1-1972) Absorption process for recovery of nitrogen oxides from gas streams.
- 134247 (11-1-1972) A process for carrying out catalytic fluid-bed ammoxidation reactions.
- 134894 (20-4-1972) Process for preparing 7-chloro-1-methyl-5-phenyl-2, 3-dihydro-1H-1, 4-benzodiazepine-2-one.
- 135162 (4-4-1972) Method of refining fructos-containing solution.
- 135486 (2-5-1972) Process for isomerizing glucose to fructose.
- 135531 (10-5-1972) Process for the manufacture of organic phosphoric acid esters.
- 135582 (9-3-1971) catalytic hydrocracking process.

## RENEWAL FEES PAID

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## CESSATION OF PATENTS

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## RESTORATION PROCEEDINGS

## (1)

Notice is hereby given that an application for restoration of Patent No. 89137 dated 29th July, 1963 made by Jayantilal Shyamdas Jhaveri on the 27th April, 1977 and notified in the Gazette of India Part III Section 2 dated the 28th May, 1977 has been allowed and the said patent restored.

## (2)

Notice is hereby given that an application for restoration of Patent No. 105081 dated 29th April 1966 made by National Research Development Corporation of India on the 11th April 1977 and notified in the Gazette of India, Part III, Section 2 dated the 28th May 1977 has been allowed and the said patent restored.

## (3)

Notice is hereby given that an application for restoration of Patent No. 114953 dated 13th March 1968 made by Phabhakar Ramachandra Phatak on the 7th March 1977 and notified in the Gazette of India, Part III, Section 2 dated the 21st May 1977 has been allowed and the said patent restored.

## (4)

Notice is hereby given that an application for restoration of Patent No. 131275 dated 7th May 1971 made by Yallapragada Sambasiva Rao on the 4th May 1977 and notified in the Gazette of India, Part III, Section 2, dated the 23rd July 1977 has been allowed and the said patent restored.

## (5)

Notice is hereby given that an application for restoration of Patent No. 135919 dated 24th April 1972 made by Platt Saco Lowell Limited (formerly known as Platt International Limited) on the 8th March 1977 and notified in the Gazette of India, Part III, Section 2 dated the 23rd July 1977 has been allowed and the said patent restored.

## (6)

Notice is hereby given that an application for restoration of Patent No. 138796, dated the 16th April 1973 made by Abani Bhusan Halder on the 23rd March, 1977 and notified in the Gazette of India, Part III, Section 2, dated the 7th May, 1977 has been allowed and the said patent restored.

## (7)

Notice is hereby given that an application for restoration of Patent No. 138830 dated 3rd March 1973 made by Umakant Jagannath Mahashabde on the 30th March 1977 and notified in the Gazette of India, Part III, Section 2, dated the 21st May 1977 has been allowed and the said patent restored.

## (8)

Notice is hereby given that an application for restoration of Patent No. 138920 dated 24th February 1973 made by M/s. Wrips (P) Ltd. on the 12th May 1977 and notified in the Gazette of India Part III Section 2 dated the 28th May, 1977 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 145435. Nelson Type Foundry Private Limited, 62, Sami Pillai Street, Choolai, Madras-7, Tamil Nadu, Indian Private Limited Company, "Telugu Type Founts", April 11, 1977.

Class 1. No. 145485. Nelson Type Foundry Private Limited, 62, Sami Pillai Street, Choolai, Madras-7, Tamil Nadu—Indian Private Limited Company, "Telugu Type Founts", April 26, 1977.

Class 1. No. 145506. Flamm Electronics, 10/13A, Benham Hall Lane, Bombay 400004, Maharashtra State, an Indian Proprietary Firm, "Electromagnetic Horn for Automobiles", May 4, 1977.

Class 3. No. 145524. Plastica, 94, Vithalwadi, Kalbadevi Road, P.O. Box No. 2660, Bombay-400002, Maharashtra State, an Indian Partnership concern, "Lemon Squeezer", May 10, 1977.

Class 3. No. 115604. Bush India Limited, a Company registered under the Companies Act and having its office at Sukh Sagar, N. S. Patkar Marg. Bombay-400007, State of Maharashtra, India "Radio Cassette Tape Recorder", May 23, 1977.

Class 3. No. 145623. Mrs. Neeta Parsaram Mansey, an Indian National, of H-18, Gita Society, Synagogue Street, Pune-411001, Maharashtra State, India, "Container", May 27, 1977.

Class 5. Nos. 145477 & 145478. Lakme Limited of Bombay House, 24-Home Mody Street, Bombay-400023, Maharashtra, India, an Indian Company, "Carton", April 23, 1977.

Class 10. No. 145603. VYN FOOTWEAR, an Indian Partnership Firm, carrying on business at 57A Govt. Industrial Estate, Gharkop, Kandivli (West), Bombay-400067, Maharashtra, India, "Chhapal", May 23, 1977.

## COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS

Design Nos. 140350, 140688, 140689, 140690, 141622, 141623, 141624, 141625 & 144443 Class 1.

Design No. 140147 and 140135 Class 3.

## COPYRIGHT EXTENDED FOR A THIRD PERIOD OF FIVE YEARS

Design Nos. 131592, 131593, 131733, 131782, 131783, 144443 Class 1.

Design Nos. 131626, 131627, 131628, 131629, 131631, 131680 Class 3.

Design No. 133170. Class 4.

S. VEDARAMAN

Controller-General of Patents, Designs and Trade Marks.